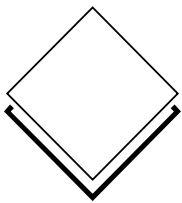


novaPro32 Users

User's Manual

7000894003 Q2

This description corresponds to the current program release, Version 5.0. Changes are taking place constantly, without prior notification.





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List of icons and symbols



Keyboard operation



Wait



diskette



Mouse operation



Single mouse click with left button



Single mouse click with right button



Double mouse click with left button



Double mouse click with right button



Description



Application



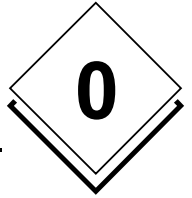
Information



Attention



Note



Trademarks

Designer	Trademark of Micrografx, Inc.
Micrografx Designer	Trademark of Micrografx, Inc.
Media Manager	Trademark of Micrografx, Inc.
Windows	Trademark of Microsoft Corporation
Microsoft Office 97 Professional	Trademark of Microsoft Corporation
MS Office	Trademark of Microsoft Corporation
Microsoft Access 97	Trademark of Microsoft Corporation
Microsoft Office 2000	Trademark of Microsoft Corporation
Microsoft Word	Trademark of Microsoft Corporation
Acrobat Reader	Adobe Systems Incorporated
Pentium	Trademark of Intel Corporation



1 Introduction

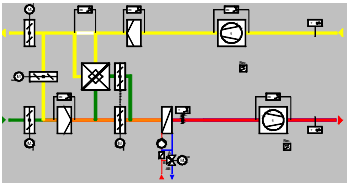
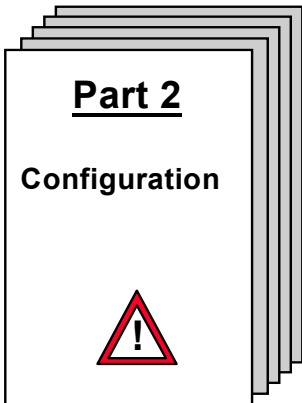
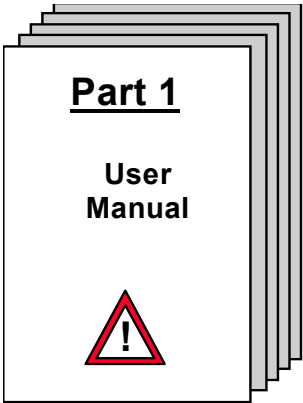


novaPro32 comprises the management level of the EY3600 building management system. This system is extremely user-friendly because it is built up consistently on the basis of the Microsoft Windows operating system. The system's standard interfaces and network capability make it possible to integrate building automation into the office automation world.

These pages provide users of the **novaPro32** management system with an overview of the most important functions and how to use them. These instructions explain the major operating procedures in detail, but they deliberately do not cover the parameterisation of the system: in this respect, they are quite specifically intended for operating and service staff.

1.1 The documentation for novaPro32

The operating instructions for **novaPro32** are in three parts. Each part is intended for a quite specific user group.



Operating staff	Maintenance staff	Installation design engineering
Doc. No. 7 000894 003	Installation design engineering	Commissioning staff
	Doc. No. 7 000904 003	Doc. No. 7 000915 003
1) Introduction	1) General	1) Introduction
2) Getting started	2) Generating passwords	2) Hardware, software
3) Security/Login	3) Filters	3) Installation
4) Alarm list – operation	4) Address groups	4) The novaPro32 project
5) The novaPro32 browser	5) Event publisher server	5) Equipment table
6) Pictures - operation	6) Alarm list	6) Networks
7) Protocols	7) Online messaging	7) Icon Maker
8) Time programme	8) Historic database	8) Glossary
9) Calendar	9) Dynamising pictures	
10) HDB/Trend	10) Address list	
11) PC time programme	11) Synchronisation – AS network	
12) Address list	12) Printer	
13) Remote-island mode	13) Copy Shareable_Data	
14) Online documentation	14) Document master	
	15) Logbook	
	16) Help, Online documentation	

1.2 System topology

The PC operating stations are connected directly to the system bus, or to one another via a LAN/WAN network. In this way, building management technology is fully integrated into a company's network infrastructure.

A modem can be used to implement remote access to the installations via the public telecommunications network. Events and protocols can be forwarded on the basis of time and priority to a wide variety of destinations such as printers, faxes, pagers, paging systems and so on.

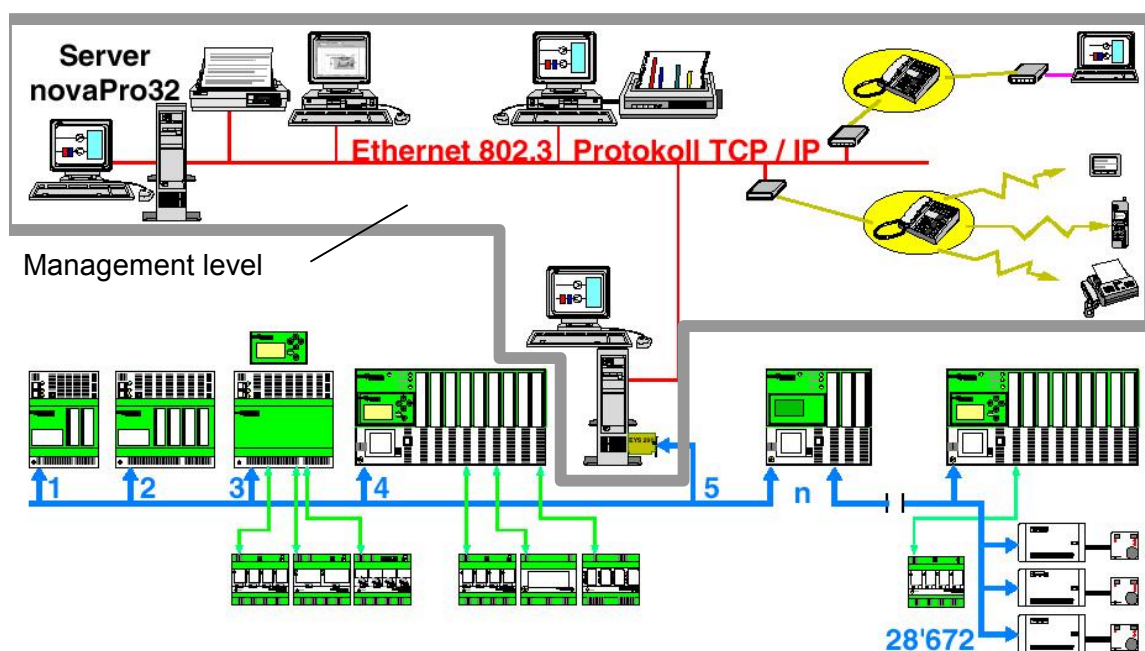


Fig.1-1: System topology

The management level is used for operational management, and it handles the following main tasks:

- process visualisation and monitoring
- operation of the installation(s)
- signal processing and alarming
- logging and evaluation
- higher-level management and optimisation functions
- central archiving functions
- long-term data storage



1.3 System requirements

HW requirements:

PC:	
Processor:	INTEL Pentium II 233 MHz or better (400 MHz recommended)
Working memory:	192 MByte RAM (256 MByte recommended)
Hard disk:	min. 1.8 GB (depending on the installation size, 9 GB recommended)
Diskette drive:	3½ " 1.44 MByte (to install the licence)
CD drive:	for the installation
Interfaces:	1 mouse, 1 serial, 1 ISA-Bus (optional for EYS290) 1 printer 1 network connection

SW requirements:

Windows NT 4 SP6a/2000 and XP
MS-Office 97/2000 and XP
(Designer 7 to generate vector graphics)
For administration: MS-Access 97

1.4 Structure of novaPro32

The **EY3600 novaPro32** system operating software is based on the operator-prompted, user-friendly Windows surface. The modular structure allows individual configuration of the system in relation to the customer's needs in each case. The customer only ever pays for the functionality he wants, but flexibility for future extensions to the system is retained.

EY3600 novaPro32 is based on the MS Windows operating system, and it is a 32-bit application.

The software offers a large number of powerful and efficient functions such as:

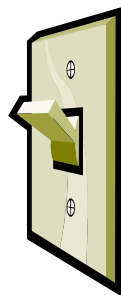
- visualisation and operation using dynamic installation schematics or text windows
- alarm monitoring; an alarm journal is kept
- parameterisation and modification of the time and holiday programs for the automation stations
- display and output of freely definable protocols
- display and output of tables and graphics for historical data
- 'Trend' function to show ongoing data in graphic form
- logbook to log all system actions
- differentiated password protection, can be defined for each user
- events such as alarms, limit value violations, value changes, system messages and time- or event-controlled protocols are forwarded selectively to destinations of all types, such as screens, printers, fax, E-mail, files or pager systems.



- multimedia ability opens up entirely new horizons for the display and output of events. For example, when a certain alarm occurs, a film can be shown automatically or a voice announcement can be activated.
- data exchange with all Windows programs. For example, an Excel table can be dynamised in an installation schematic or (in the opposite direction) novaPro process value dynamisations can be displayed in EXCEL.
- interfaces to integrate external systems



2 Getting started



2.1 Starting novaPro32

Start **novaPro32** by double-clicking on the icon that has been specially created for your project. All the necessary components will be loaded automatically.

novaPro32 starts these programs in the background:

Provider → Provid.exe

Event Publisher Server → EPServer.exe

Historical Database Server → HDBServer.exe



Fig. 2-1
novaPro32 start icon

The start icon is specifically set up for your project on the PC by the design engineer. Program IconMaker.exe can be used to specify the precise start mode for novaPro32.

After you have started novaPro32, open the **novaPro32** Document Browser (see Chapter 5.1). novaPro32 appears as shown in Fig. 2-2 with the Browser on the left and the opened document on the right.

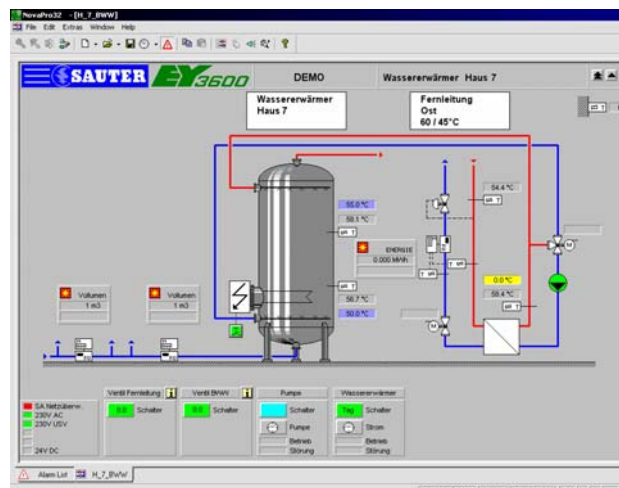


Fig. 2-2 novaPro32 - Operating surface
with Document Browser



Please contact your System Administrator; he will be glad to give you more detailed information about the precise start configuration for your project.

2.2 Close/shut down novaPro32

You can use the context menu (right-hand mouse button) for the index card of novaPro32 documents as a convenient way to close the documents (see Fig. 2-3).

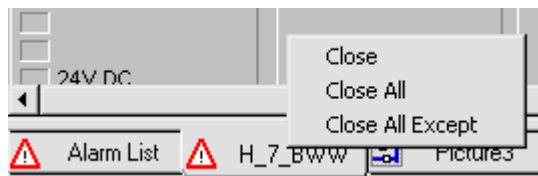


Fig. 2-3 Context menu of the index card for novaPro32 documents

Shut novaPro32 down with the File/Shut down menu.



'Shut down' closes novaPro32 with all the sub-programs such as the Event Publisher Server and the HDB Server. After a 'shutdown', no more alarms are issued to reporting systems, such as printers; nor are data from the Historical database archived.

The 'Shut down' function is only accessible to authorised users.

2.3 Data connection to an AS network

novaPro32 supports the possibilities for communication with an AS network that are shown in Table1.

Table1: Communication with an AS network

A290:	Connection via ISA-Bus Controller EYS 290. The ISA-Bus Controller EYS 290 is situated in your local PC, which therefore has a direct connection to the AS network.
A291:	Connection via novaNet-Router EYZ 291. The novaNet-Router EYZ 291 is directly connected to a serial interface of your local PC.
Modem:	Connection via the public telephone network to a novaNet-Router EYZ 291. The PC is fitted with a telephone modem, and it uses the public telephone network to establish a connection with a second modem which is directly connected to a novaNet-Router EYZ 291.
DCOM:	Connection via a data network (LAN/WAN). Your local PC uses a data network (LAN/WAN) to connect to a second PC (the Gateway), which has a direct connection to the AS network.

2.3.1 Direct access to the AS networks

If your PC has direct access to the AS networks (A290 or A291), you need do nothing after you have started novaPro32. The data connection to these networks is established automatically.

2.3.2 Access via data network (LAN/WAN)

This operating mode is now started via 'Windows Sockets'.

If your workstation uses an IT network (LAN/WAN, such as Ethernet, TCP/IP) to access a Gateway PC with a direct connection to the AS networks, novaPro32 will automatically establish a connection with the Gateway PC via the network connection after it has been started.

The network server can also be run as a normal operating station.

There is no starting order between network server and network client.

The addresses are automatically logged on again after the network server has been stopped/started.

If the connection is successful, the Windows task bar (bottom right) will show a ball icon. The colour of this ball tells you about the status of the data connection between your workstation (DCOM client) and the Gateway PC (DCOM server). See Table 2.

Double-click the ball to view the list of connections.

This list includes all the connected server PCs with the connection status and the time when the connection was established or broken Fig. 2-6

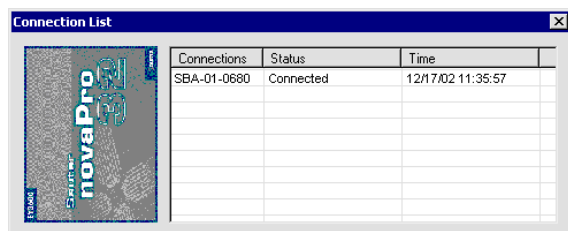


Fig. 2-6



Fig. 2-4:
An existing connection



Fig. 2-5
Connection broken

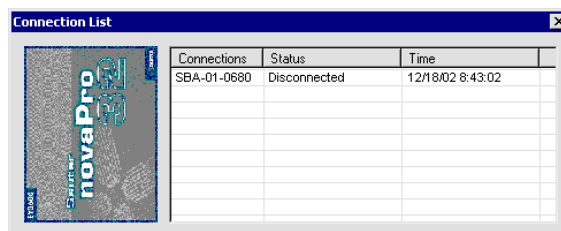


Fig. 2-7

Table 2: What the colours mean

Colour	Means	Possible causes
Blue ball:	The connection between the workstation and the Gateway is OK.	
Yellow exclamation mark:	The connection between the workstation and the Gateway has been interrupted.	<ul style="list-style-type: none"> The Gateway PC might not be operating. The network connection has been interrupted. Configuration error

2.3.3 Access to the AS networks via modem

You can use a normal commercial telephone modem to establish a connection between your PC and novaNet-Router EYZ291 via the public telephone network (see Fig. 2-8).¹

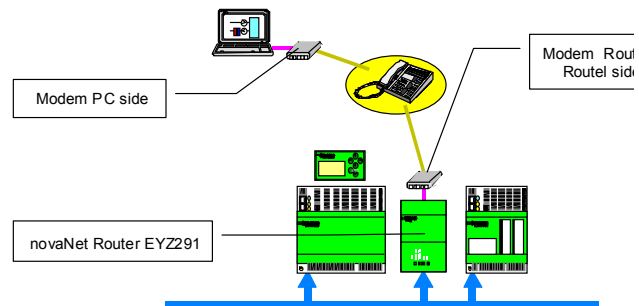


Fig. 2-8: Connection via modem

Depending on the **novaPro32** start configuration, the telephone connection to the AS network is established automatically, or else you have to make the connection manually via the 'File | Connections...' menu.

To make the connection manually, the 'Connections' dialogue will appear on the screen (see Fig. 2-9). Click on the 'Connect' button to establish a data connection with the AS network.

You can use the 'Close' button to terminate a data connection that already exists. **novaPro32** logs off the AS addresses and the modem terminates the telephone connection to the AS island.

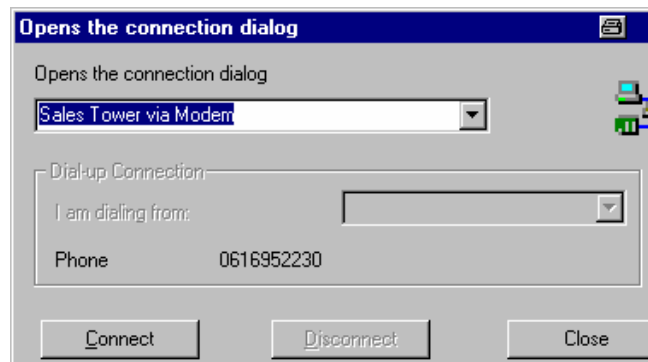


Fig. 2-9: Establishing a connection with an AS island

¹ Installation and configuration of the modem connection: see EY3600 novaPro32 Installation Manual. 7000915 001

3 Security



novaPro32's functions are only accessible to authorised staff. A user identifies himself in the system with a user name and a password.

The code word can be used to assign rights to users on an individual basis. Actions performed by the user are logged with his user name, making it possible to trace interventions in the system.



Change the password you are assigned for one which you normally use.

Always keep the password under lock and key.

If you lose your password, please contact your System Administrator. He will reset the password and issue you with a new one.

3.1 Login

- To show the input mask for 'user name' and 'password', click on the key in the icon bar or use the 'File' menu:

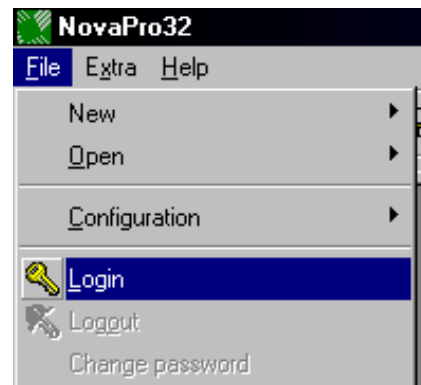



Fig. 3-1: Login

- In the next input box, enter your user name and your password, and confirm your entries with 'OK'.

Fig. 3-2: Entering your user name and password

3.2 Logout

Before leaving your workplace, you must log out from your workstation. This bars all operating functions, as an effective way of preventing incorrect manipulations by unauthorised people.

Click on the  icon in the icon bar, or use the 'File' menu to log out if you are already logged in.

All open windows (images, alarm lists, etc.) will be closed and **novaPro32** remains barred for manipulations until a user logs in again.

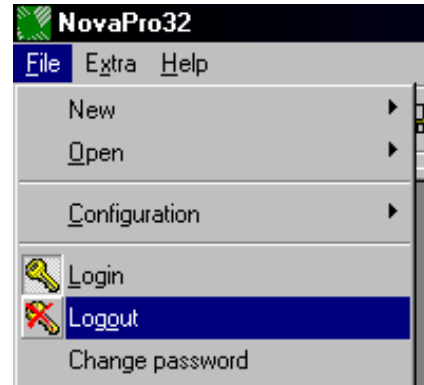


Fig. 3-3: Logout



In this mode, the HDB server and the EP server remain active in the background – in other words, all data points defined by the EP system group continue to be recorded.

3.3 Change password

Users can independently change the password which the System Administrator assigns for a more familiar one.

To do this, go to the 'File' menu and select the 'Change password' function:

Enter your new password, and confirm your entry in the 'Confirm password' box.



The password you enter is masked.

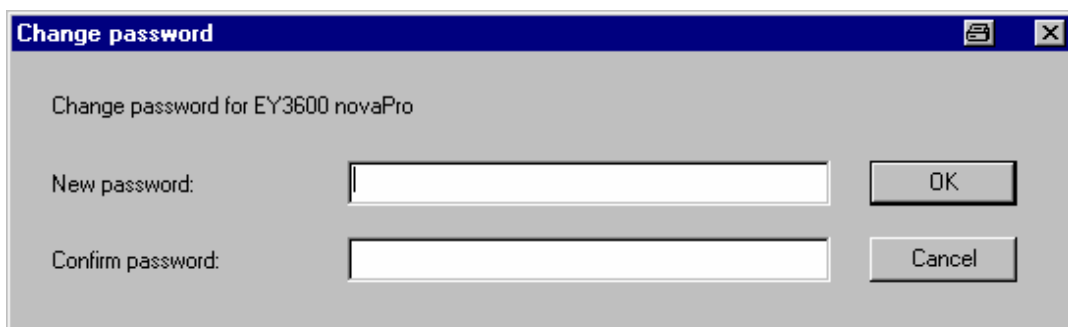


Fig. 3-4: Change password

4 Alarm list



Once a user has logged in, the alarm list provides him with a quick overview of the current status of the installation.

4.1 Show alarm list

Open your user-specific alarm list by clicking on the 'Warning triangle' icon in the **novaPro32** icon bar.

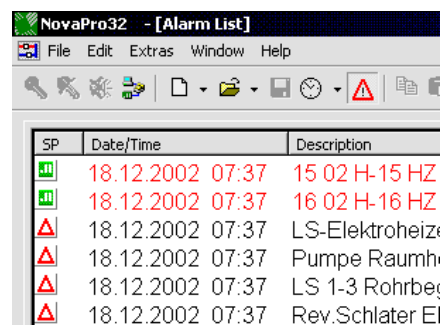


Fig. 4-1: Calling up the alarm list

4.1.1 Alarm list display

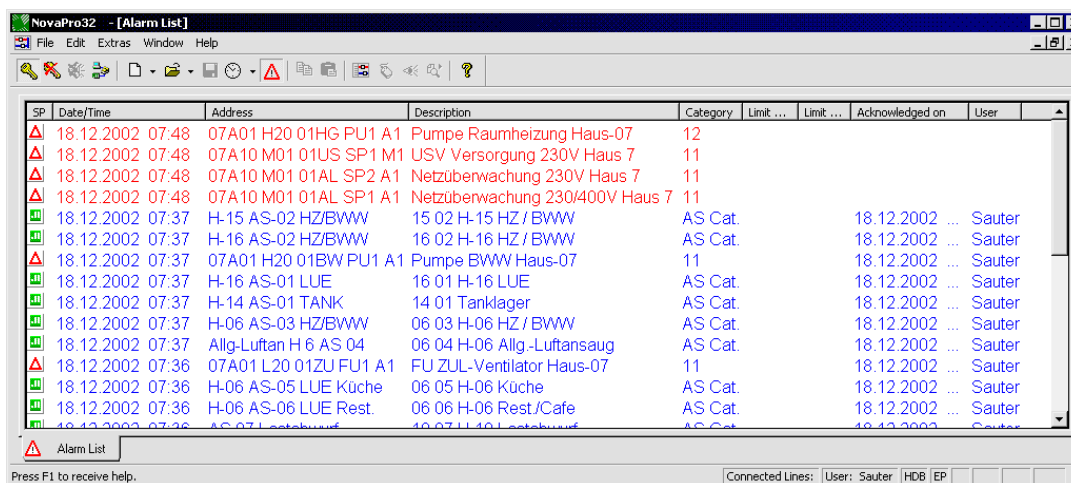


Fig. 4-2: The alarm list

Date/time when alarm occurred/Designation of alarm signal/Current limit value/Name of operator who acknowledged the alarm ' Precise data-point address/Designation of alarm status/Date and time of alarm acknowledgement

Alarm list

red: active alarm, not acknowledged
blue: active alarm, already acknowledged
 The 'Caused by' column shows the user who acknowledged the alarm.
black: alarm which has already ceased without acknowledgement
 Once a message shown in black has been acknowledged, the message is deleted from the alarm list.

- You can change the order within a column (ascending or descending) by clicking in the header (as in Windows Explorer).
- The order within the 'Status/value' column depends on these 3 statuses:
 - (1) alarm not acknowledged
 - (2) alarm acknowledged
 - (3) return to normal status, not acknowledged
 and it can be specified as follows:
 - the first click selects order [1 - 2 - 3];
 - the second click selects order [3 - 2 - 1].
- As in Windows Explorer, set the column width by dragging the column borders with the mouse while keeping the left-hand button pressed down.
- Use 'drag and drop' to position the columns

4.1.2 Working with novaPro32 in the background



After the program has been started and the alarm list has been displayed, **novaPro32** can be run as a background application in Windows. A warning triangle in the Windows task bar will alert you if an alarm occurs while you are working with another Windows application (such as Office software) in the foreground.

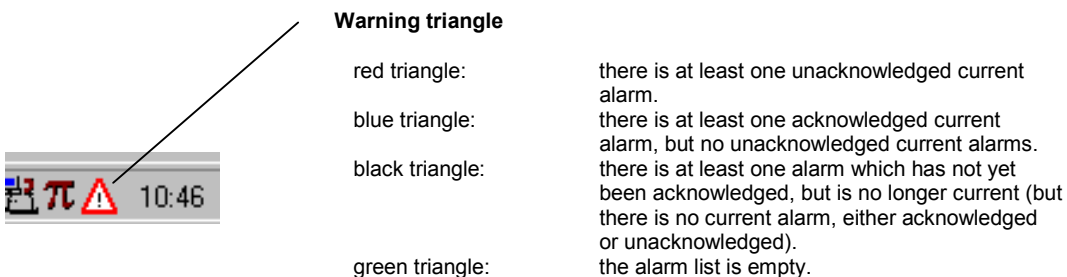


Fig. 4-3: What the warning triangle means

Automatic alarm list call-up:

The alarm list will automatically move to the foreground when an alarm occurs if **novaPro32** is parameterised in this way.

Manual alarm list call-up:

Click on the 'Alarm list' icon (warning triangle)

4.2 Operating the alarm list

4.2.1 The context menu

Click with the right-hand mouse button on an alarm message, and the context menu will appear.

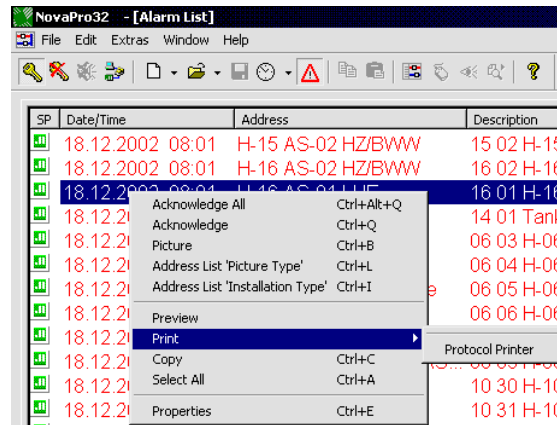


Fig.4-4: Alarm list context menu

Acknowledge All: All alarm messages that are current at this time are acknowledged.

The date and time of the acknowledgement are entered in the 'Date/Time' column.

The operator's user name is entered in the 'Caused by' column.

Acknowledge: Only the selected alarm is acknowledged.

Picture: This automatically calls up a picture where the selected data point occurs. If the data point occurs in several pictures, a selection is shown.

Address List "Picture Type":

Opens an address list based on a picture. In the next dialogue, select the **novaPro32** picture whose dynamised addresses you would like to show in list form.

Address List "Installation Type":

All addresses in the installation where the alarm occurred are shown in the form of an address list.

Preview: Call up the alarm list print preview.

Print: The alarm list is printed, based on the current template on which the printer was set as per Chapter 12 in the configuration manual (7000904003).

Copy: The selected alarm messages are copied to the clipboard. This is a simple way of transferring the messages into a word processing program.

Alarm list

Mark all: All the entries in the alarm list are selected and shown as marked.

Properties: Displays the alarm list properties (see Fig. 4-5 and Fig. 4-6).

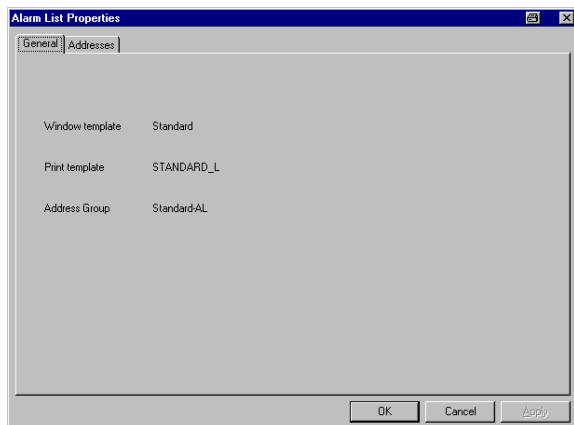


Fig. 4-5: General tab

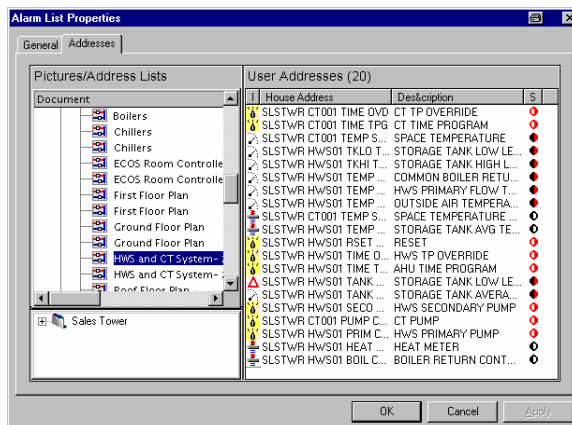


Fig. 4-6: Addresses tab

General tab

Alarm list settings for the logged-in user are entered on this tab:

- the window template designation
- the print template designation
- the designation of the address group specified for the alarm list

Addresses tab

On this tab, the user can see those addresses that the System Administrator has assigned to him.

The left section shows all the pictures and address lists as a tree structure.

After a picture or a list has been selected, 'User Addresses' shows a list of those addresses from the selected picture or address list which are released by the user-specific address group.

Address display (in the 'User addresses' field):

- Addresses with a grey backing are those which were excluded by the EP server filtering.
- Three parameterisation cases are differentiated for each address type:
 - only the basic function of the address
 - ◐ only the additional function of the address
 - the complete function of the address
- The symbols shown in red are those addresses for which the desired function has not been parameterised in the automation station.

4.2.2 Acoustic alarms

An acoustic signal can be used to denote the occurrence of an alarm in novaPro32. The signal sound is reproduced by the PC sound card in this case.

Depending on the configuration, you must confirm the alarm sound by pressing any key, by clicking on the alarm icon (see Fig. 4-7) or by acknowledging the alarm.

If an automatic alarm repeat is set, the signal sound will be repeated after an adjustable time (such as 15 minutes) once it has been confirmed, until the alarm is acknowledged or until it returns to the normal status. (Snooze).

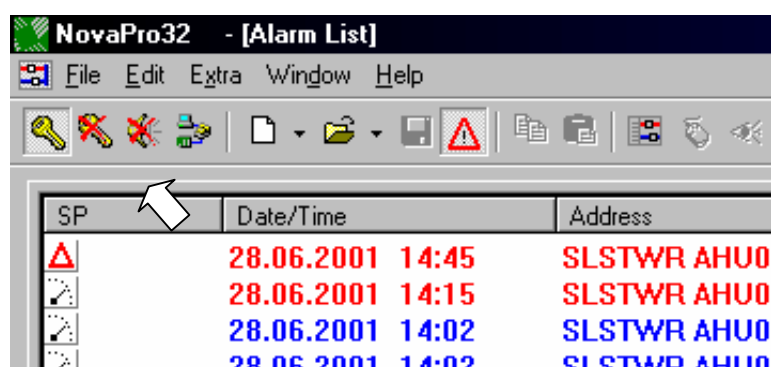
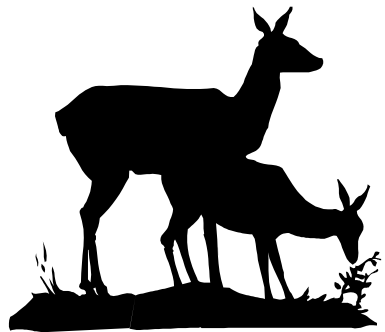


Fig. 4-7: Confirming an acoustic alarm



5 The novaPro32 browser



The novaPro32 browser gives you a rapid overview of all the novaPro32 files in your project, such as pictures, pre-configured protocols, HDB/Trends, time programmes, etc. In the usual Windows style, you can search through the installation pictures that are available. The browser makes it easier for you to access your installation documents, and allows you to select and call up the document you want quickly.

Open the novaPro32 browser with the  command button in **novaPro32's** icon bar. The novaPro32 browser consists of three tabs: document browser, address browser and system browser.

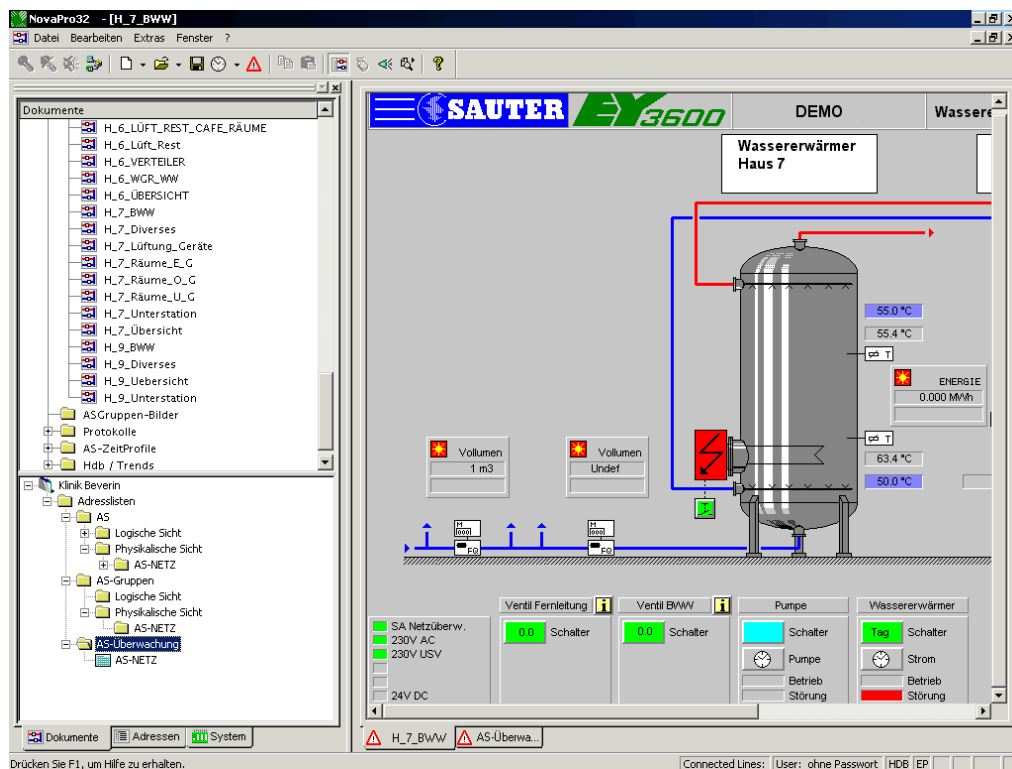


Fig. 5-1: novaPro32 with the Document browser open

5.1 The document browser

The document browser comprises two sections: "Documents" and "Address lists".

In the 'Documents' section, you can access all **novaPro32** documents directly. You will find one main folder per type of document. You can use the main folder's context menu to rename the folder, set up new sub-folders, and so on (see Table 4).

Create a new folder

You can create sub-folders for all the main folders (see Table 3). To do this, open the main folder's context menu and select the 'New folder' command.

Rename a folder

You can adapt the folder names to your individual needs. To do this, open the folder's context menu and select the 'Rename' command.

Delete a folder

You can remove empty sub-folders from main folders with the 'Delete' command in the context menu.

Main folders cannot be deleted.

Properties

The 'Properties' command opens for each object in the Document browser (folders, pictures, protocols, etc.) an overview of the objects settings

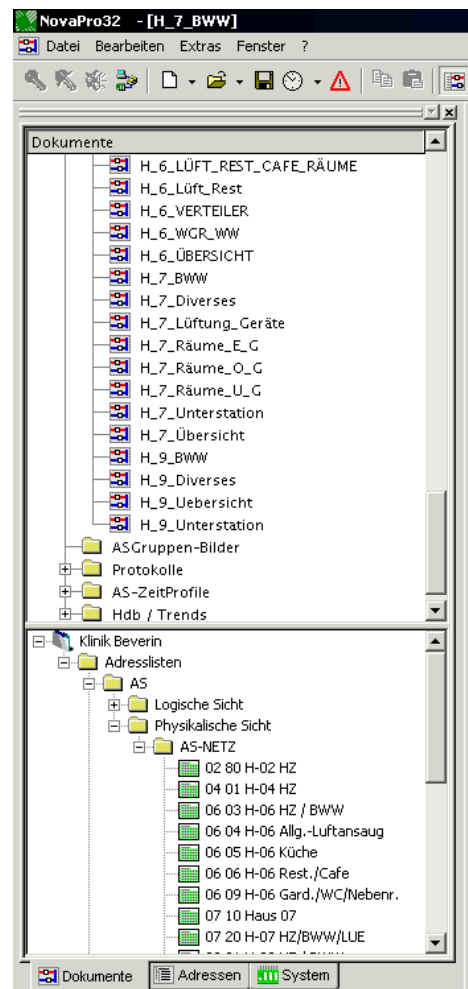


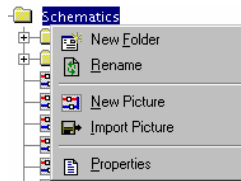
Fig. 5-2 Document browser
'Documents' section

Table 3: novaPro32 documents

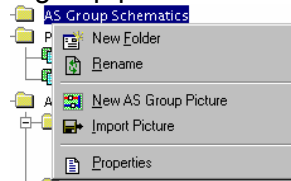
Main folder designation	
Installation schematics	Dynamic pictures, schematic diagrams of installations and parts of installations. The dynamic objects have fixed links with automation station house addresses.
AS group pictures	Dynamic pictures, schematic diagrams of installations and parts of installations. One picture is available for each AS group, so several automation stations share one picture which shows the data for the selected automation station.
Protocols	EY3600 protocols (see Chapter 7)
AS time programmes	The AS time programmes folder lists all time programmes arranged according to house addresses. (See also Chapter 8)
HDB/Trends	(see Chapter 10)

Table 4: Main folder context menus

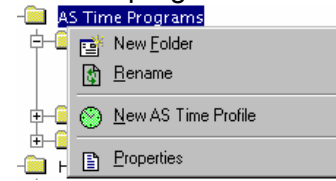
Installation schematics



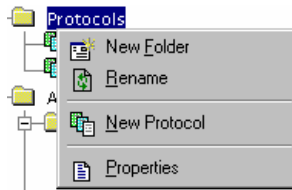
AS group pictures



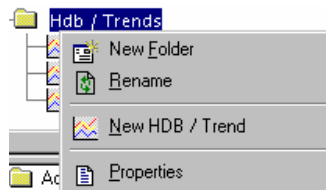
AS time programmes



Protocols

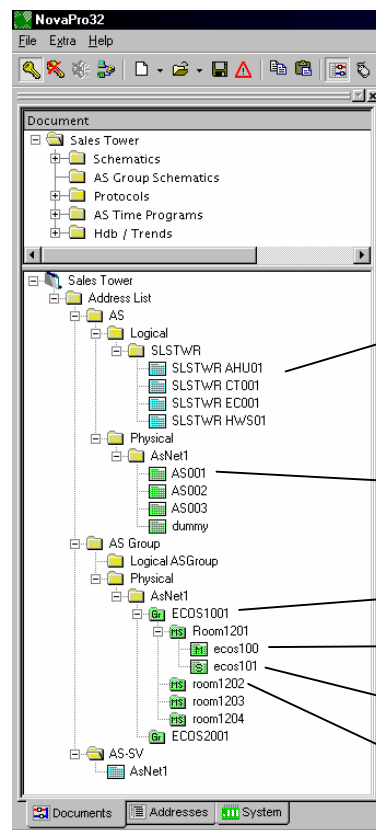


HDB/Trend



In the lower section of the Document browser, you will see the 'Address lists' section. The available address lists are arranged in directories according to AS (normal automation stations) and AS groups (automation station of AS groups) (see Fig. 5-3). The 'AS Supervisor' folder contains one address list per AS network with monitoring for the individual automation stations.

Open an address list by double-clicking on the relevant icon with the left-hand mouse button.



Logical address lists acc. to house address structure

List of all addresses for an automation station

AS group

Master

Slave

Master/slave group

Fig. 5-3: Document browser 'Address list' section

5.2 The address browser

The address browser allows direct, speedy access to all house addresses /data points of the automation stations.

The top section of the browser lists all the house addresses of the individual AS in the physical view (arranged by AS network and automation station), and in the logical view (arranged by house address structure). The bottom section shows the house addresses for the AS groups.

Open the folders by double-clicking on them with the left-hand mouse button.

Click with the right-hand mouse button on the address, automation station, master/slave group, AS group or AS network objects, and a properties window for the selected object will open. This gives you a rapid overview of the settings and parameters, etc. for the object.

Fig. 5-5 and Fig. 5-6 show examples of the properties of an AS network and a measured value address.

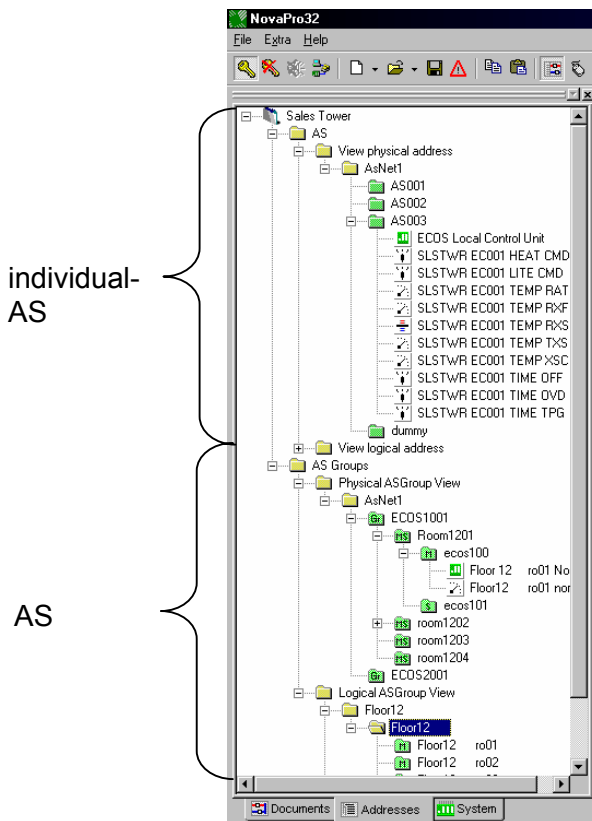


Fig. 5-4: The address browser

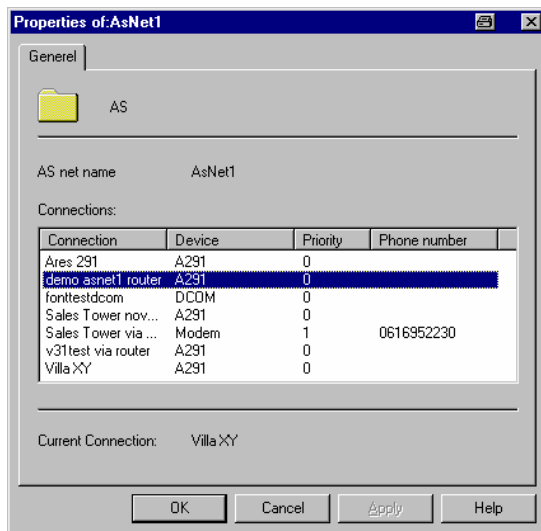


Fig. 5-5: Properties window for an AS network

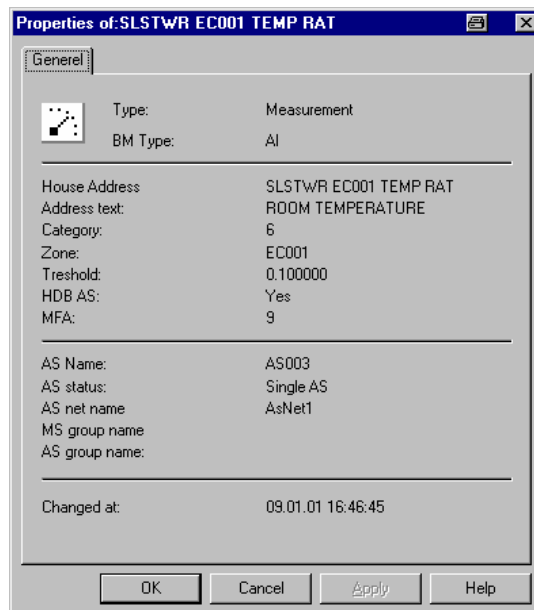


Fig. 5-6: Properties window for a house address

5.3 The system browser

The system browser allows direct access to the parameterisation of the automation stations (CASE FBD) from **novaPro32** (see the documentation on CASE FBD).

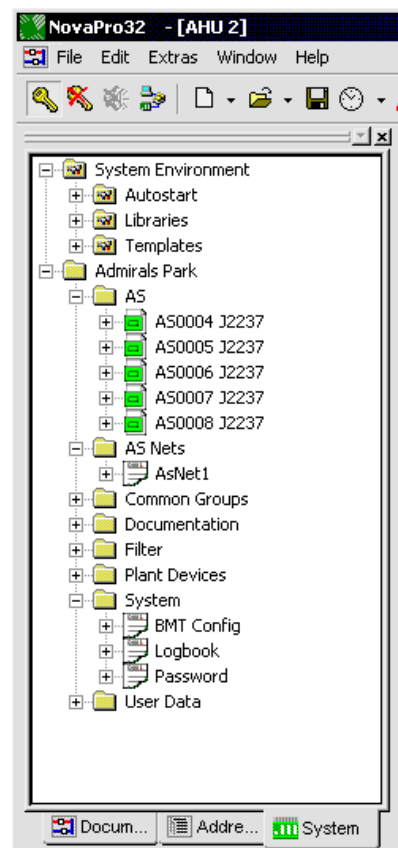


Fig. 5-7: The system browser



6 Pictures



Installation schematics are key elements in the visualisation of a major project. If overview and detail pictures are selected appropriately, operation of a major system can be virtually self-explanatory.

Fault messages are shown in picture form and they can be linked to the symbols in a diagram.

The System Administrator assigns pictures to each user which are specially tailored to his or her tasks. These pictures clearly show all the information required for the user's task, in easy-to-understand form. At a glance, the user can also see all the possible ways he is allowed to intervene in the system.

novaPro32 differentiates between installation schematics and AS group pictures.

- Installation schematics are dynamic pictures: schematic representations of installations and parts of installations. There are fixed links between the dynamic objects and the house addresses of automation stations.
- AS group pictures are dynamic representations of installations with AS groups, so one picture is available per AS group. All the automation stations in an AS group share the picture that shows the data for the selected automation station when it is called up.

6.1 Calling up a novaPro32 picture

Operators can use the 'File|Open|Picture' menu to open the pictures selected for them (see Fig. 6-1). The 'Picture' command opens the selection of installation schematics (see Fig. 6-3). The 'AS group' command opens the AS group selection (see Fig. 6-4).

Alternatively, a picture can also be opened from the icon bar (see Fig. 6-2) or directly from the document browser (see Chapter 5.1).

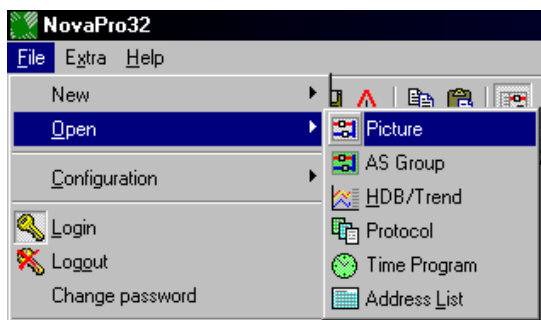


Fig. 6-1: Opening a picture

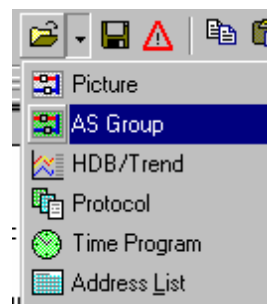


Fig. 6-2: Icon bar

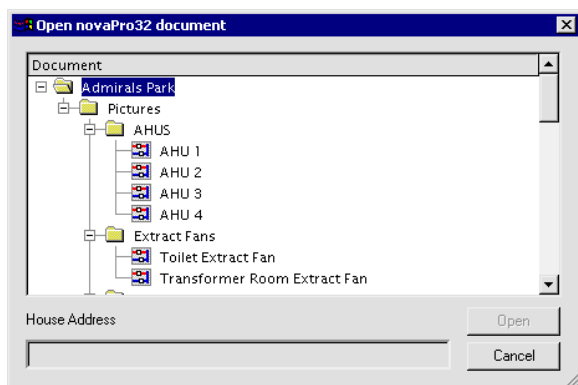


Fig. 6-3: 'Installation schematics' selection

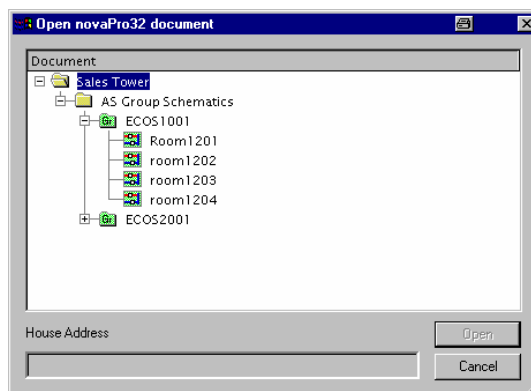
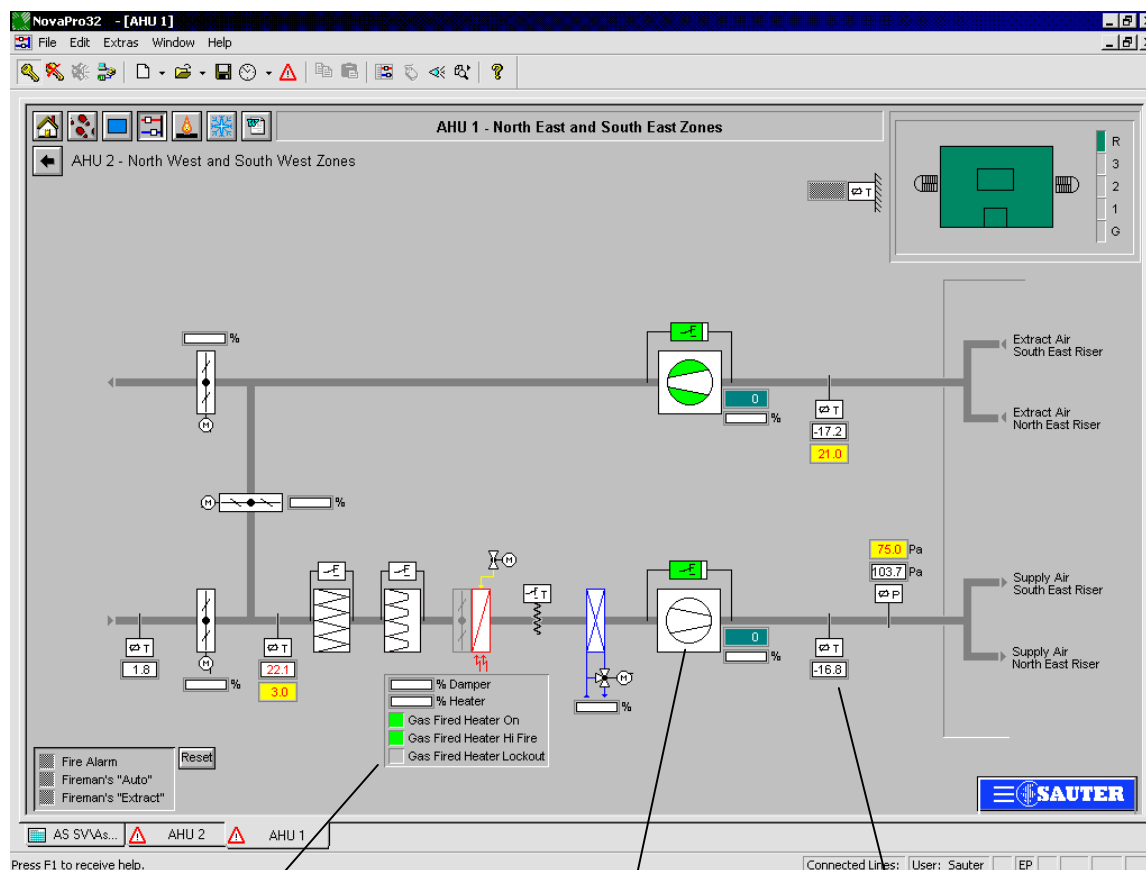


Fig. 6-4: 'AS group pictures' selection

The next section gives a more detailed explanation of the most important functions, using a simple example:

6.2 Functions in novaPro32 pictures



Display an alarm by changing the color of a schematic symbol

Display of an actual temperature reading

Display of an alarm message by changing color of a field

Fig. 6-5: Typical novaPro32 picture

Measured-value display/Alarm message shown in a field with changing colours/Alarm message shown by colour change of a diagram symbol

6.2.1 Acknowledging alarms

In pictures, alarms can be shown as text messages as well as fields which change colour.

The supervisor is free to choose the colours to indicate the various statuses (normal, alarm, acknowledged) when the pictures are being dynamised.

Example:

Field colour	Status
white	normal
red	alarm
blue	acknowledged

Active alarms can be acknowledged using the context menu, with the right-hand mouse button.

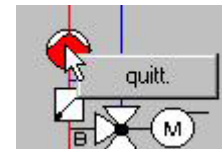


Fig. 6-6

6.2.2 Changing limit values

If the measured values are dynamised, the set limit values can be changed using the context menu.

- Call up the context menu: right-hand mouse button

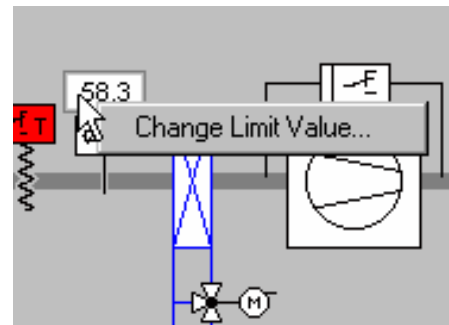


Fig. 6-7

- Enter the new limit values and confirm with 'OK'.

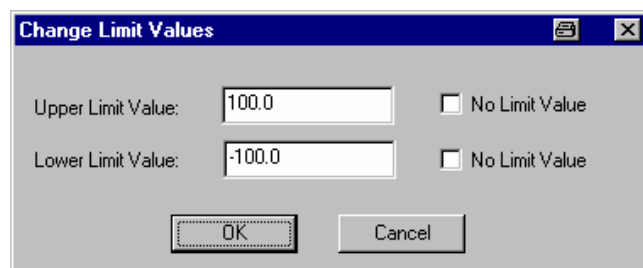


Fig. 6-8: Changing limit values

6.2.3 Changing setpoint values

Setpoint values can also be adjusted online in the same way as limit values.

- Call up the context menu: right-hand mouse button
- Select 'Change Value'

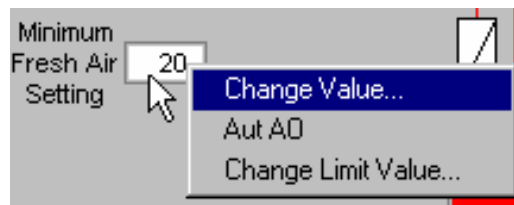


Fig. 6-9

- Enter the new setpoint value and confirm with 'OK'.

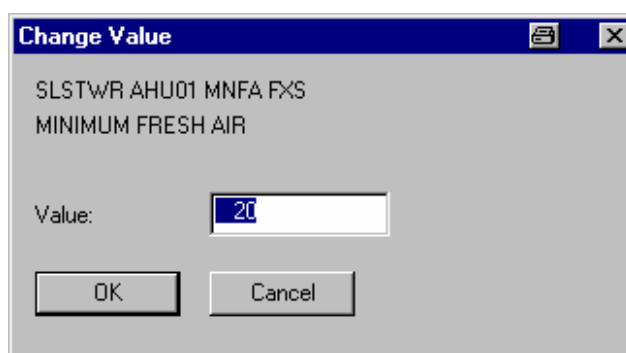


Fig. 6-10: Changing a setpoint value

6.2.4 Commands

Commands (such as switching a fan) can be triggered via the context menu of a field, if it is parameterised for this purpose. To do this, click on the field with the right-hand mouse button. You can then select the command you want in the context menu.

The command field changes colour depending on the status of the address belonging to the field, i.e. the field colour and the text it contains serve as feedback.

Example:	OFF	switch the fan off
	low	switch the fan to a slower setting.
	high	switch the fan to a faster setting.
	Aut	'automatic' setting, i.e. the fan is now controlled by the AS user program or by a time program.

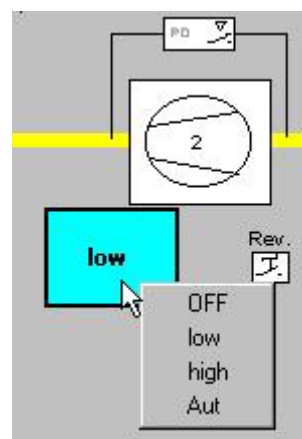


Fig. 6-11: Switching command

6.2.5 Control buttons

Depending on the way the **novaPro32** picture is parameterised, various actions can be executed with buttons. Click on the button with the left-hand mouse key and the relevant command will be executed without delay.

Possible commands:-

- Execute a switching command, such as opening or closing a ventilation damper, etc.
- Call up a subsequent picture (the current picture is closed).
- Zoom into another picture (the current picture remains open).
- Open a time programme
- Open an alarm list
- Open a protocol
- Call up an external program, or run an external file with the associated program (play a sound file, start a video, etc.)

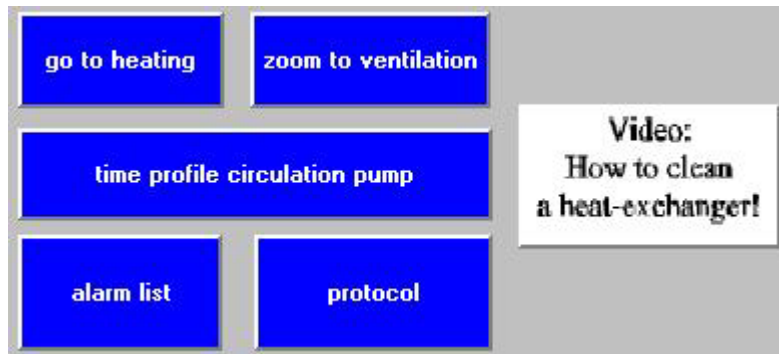


Fig. 6-12: Control buttons

Any desired picture can be assigned to a button by the System Administrator, so the appearance of a button can easily be adapted to the function assigned to it.



Fig. 6-13

6.2.6 Call up an embedded object

Objects such as Word files, tables or references to other pictures can be embedded in **novaPro32** pictures.

Use the context menu (right-hand mouse button) to open the embedded objects.

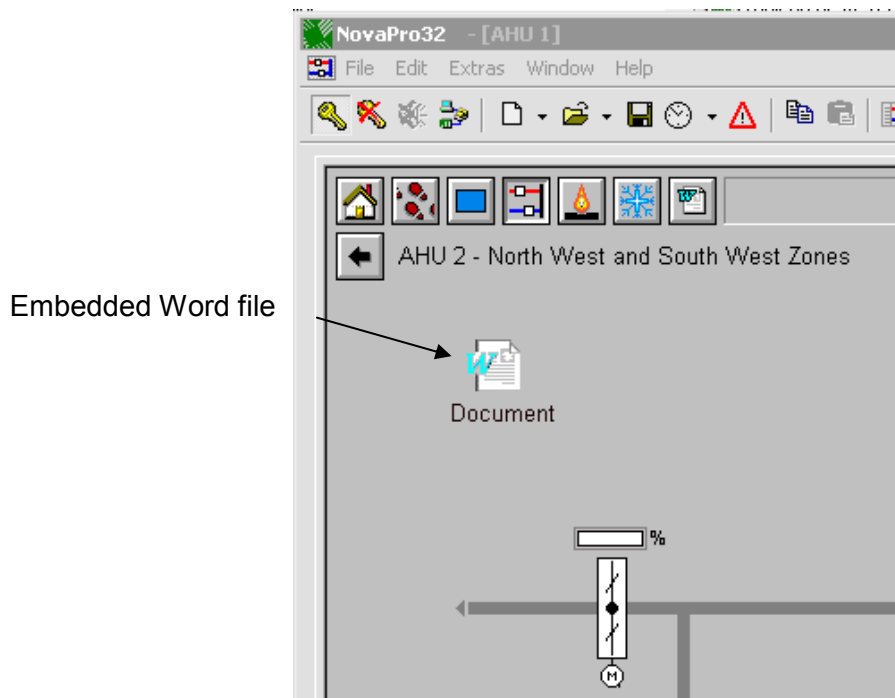
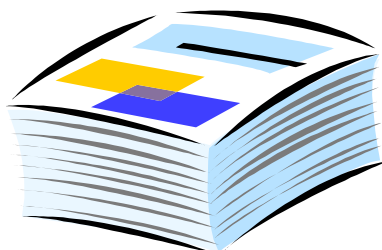


Fig. 6-14



7 Protocols



Protocols are used to interrogate and record the current installation status. They allow the use of tables to show the current status of the installation, arranged according to alarms, limit value violations by measured values, limit value violations by counter readings, status and command feedback messages, measured values and counter readings. The tables that are generated represent 'snapshots' of the installation.

7.1 Creating a new protocol

You can use the 'File|New|Protocol' menu or the relevant icon in the icon bar to open a blank protocol table.

You can also create a new protocol directly from the **novaPro32** document browser. To do this, select the 'New Protocol' command from the context menu of the Protocols folder (Fig. 7-2).

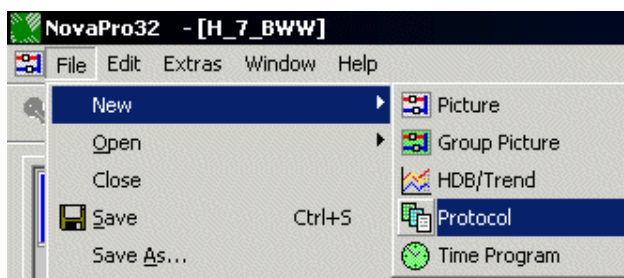


Fig. 7-1: Create a new protocol

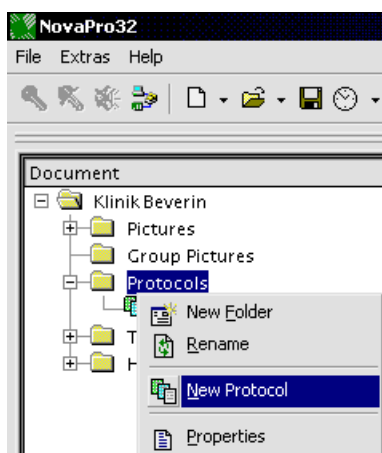


Fig. 7-2: 'New Protocol' from the document browser

Use the context menu (right-hand mouse button) of the empty protocol window to go to 'Protocol properties'.

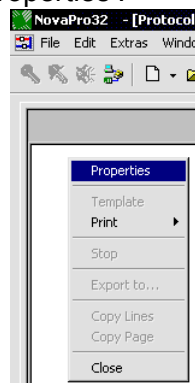


Fig. 7-3

Protocols

Selecting the type of protocol:

- Records all present alarms
- Records all status and command feedback
- Records all 'Local' feedback
- Records all 'Auto' feedback
- Records all 'Forced' feedback
- Records all measurement value
- Records limit violations of measurements value
- Records all counter values
- Records limit violations of counter values

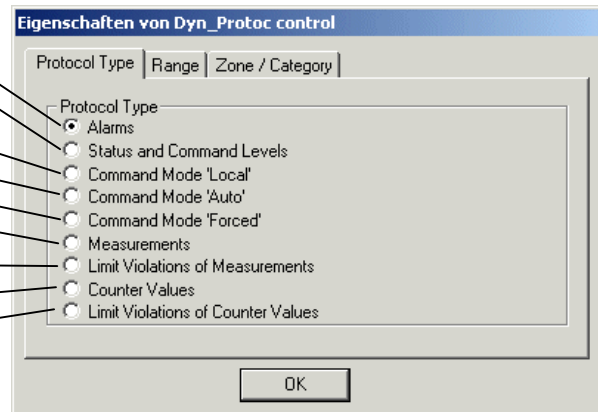


Fig. 7-4 : Protocol Type

'Range' tab:

Select an AS-network that has to be recorded.

Definition of and address range for the protocol.

Definition of the address range that has to be recorded using wildcards (* = all addresses)

Open the Selection

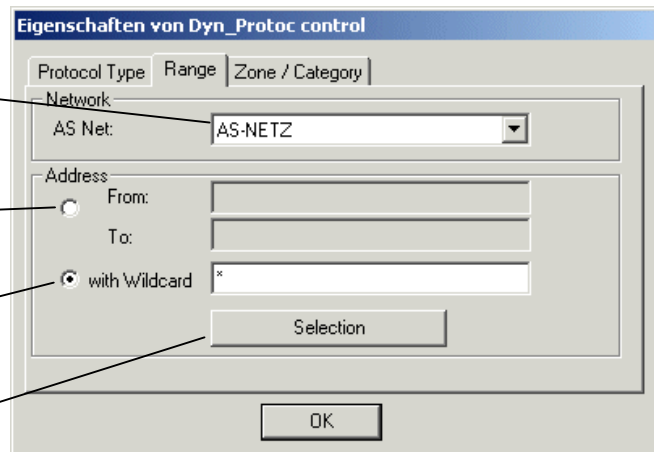


Fig. 7-5 : Protocol range



Wildcard:

- ?: replaces any desired characters
- *: replaces several desired characters

Example:

- | | | |
|------------|-------------------------------------|-----------------------|
| B05* | all addresses starting with | 'B05...' |
| *temp | all addresses ending with | '...temp'. |
| * | all addresses | |
| B05.?.temp | ? stands for any desired character, | e.g. B05.1.temp |
| | | e.g. B05.2.temp |
| | | e.g. B05.A.temp, etc. |

Address selection:

The 'Selection' button opens the familiar address browser. Use the mouse to select the addresses you want, and specify the address range for the protocol in this way.

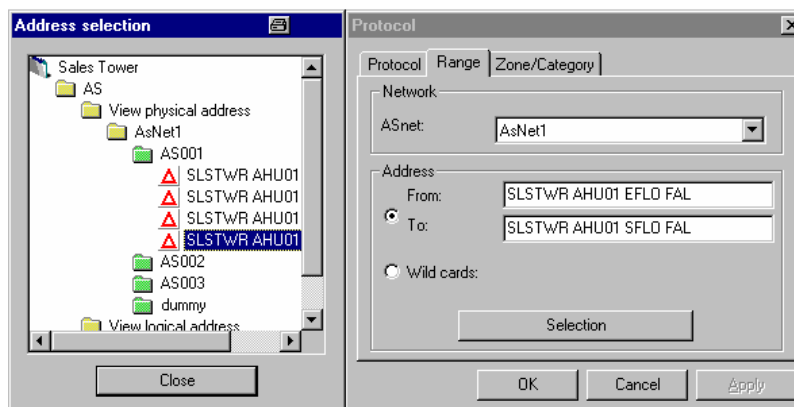


Fig. 7-6 : Protocol: address selection

After you close the address browser, you can edit the selection you have made as you wish, e.g. you can add to it with wildcards.

'Zone/Category' tab:

Select a protocol zone
(wildcard * = all zone)

Select a protocol category
(wildcard * = all categories)

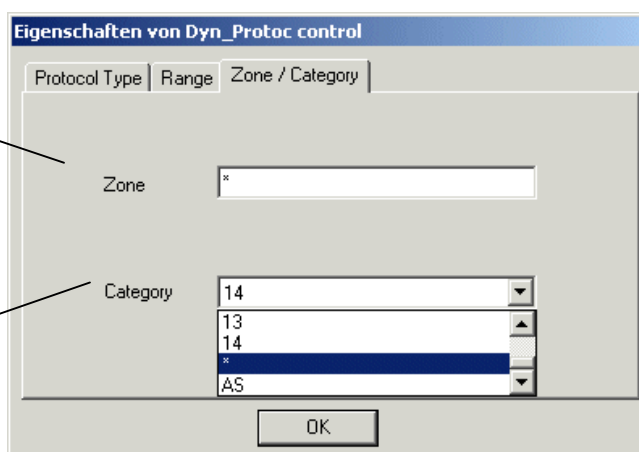


Fig. 7-7 Protocol zone and category

7.2 Saving a configuration

Once the protocol definitions have been made (protocol type and address selection), they can be saved under any desired name. To do this, select the 'File|Save' or 'File|Save as' menu command and enter a unique name for the new protocol in the file selection box which now appears.

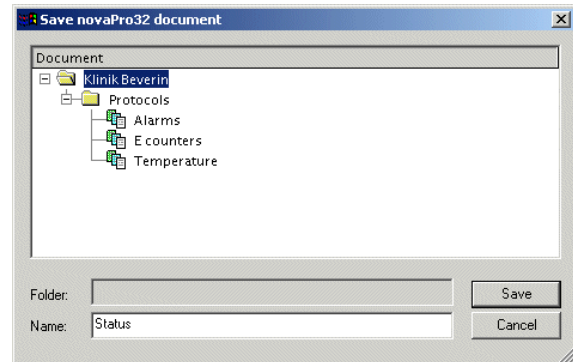


Fig. 7-8 Save a protocol



This procedure only saves the configuration, i.e. the protocol type and the address selection. The current protocol entries will not be saved. This function is intended to save frequently used settings for later use.

7.3 Calling up a pre-configured protocol

The 'File|Open|Protocol' menu or the relevant icon in the icon bar will call up a protocol that has already been saved with the 'Save' function.

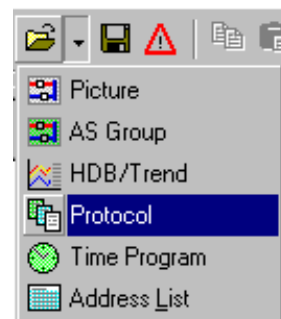


Fig. 7-9: Open a protocol

Select the protocol you want from the file selection box which now appears (see Fig. 7-10). However, you can also call a protocol up directly from the **novaPro32** document browser (Chapter 5.1).

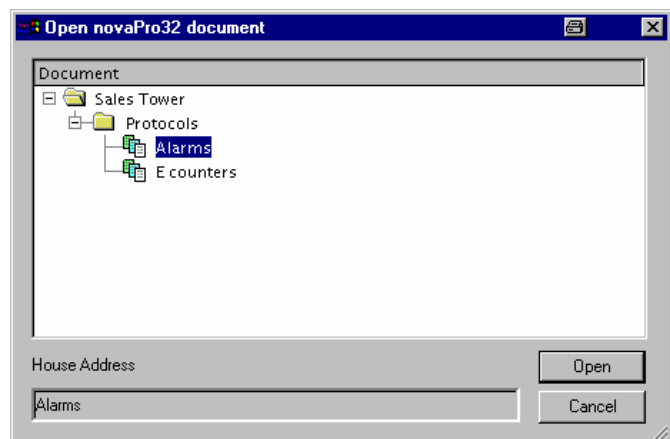


Fig. 7-10: Protocol selection

7.4 Printer selection

To select a printer:

- Select 'Template' in the context menu of the protocols (right-hand mouse button). A tick will be added to the menu.
- Open the context menu again and select 'Print' (see Fig. 7-11).
 - ⇒ The 'List and Label' software will be started. The 'List and Label' program is opened with the current print template. You can now modify the template as you wish. You can define a printer to print out the protocol in the 'Project|Page Layout|Printer' menu (of 'List and Label').
- Open the context menu again and select 'Template'. The hook will disappear.



Fig. 7-11:
Opening the printer configuration

7.5 Printing a protocol

Select the 'Print' command in the context menu of the protocol (right-hand mouse key) to output the protocol data to the predefined printer.

The method of setting the printers is described in the manual ('Configuration 7000904001 Chapter 12 Page printer'). A protocol can be aborted by using the 'Stop' command.

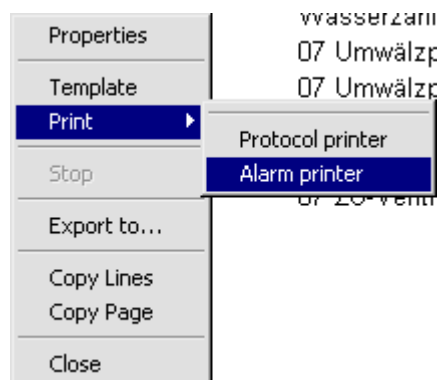


Fig. 7-12: Printing a protocol

7.6 Exporting a protocol

Use the 'Export protocol...' command to export a protocol to a particular folder.

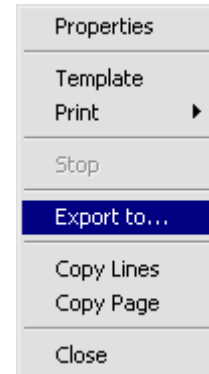


Fig. 7-13 Exporting the protocol

A dialog box appears after you have activated the export field. The name of the relevant protocol can be stated and the export folder can be selected in this window.

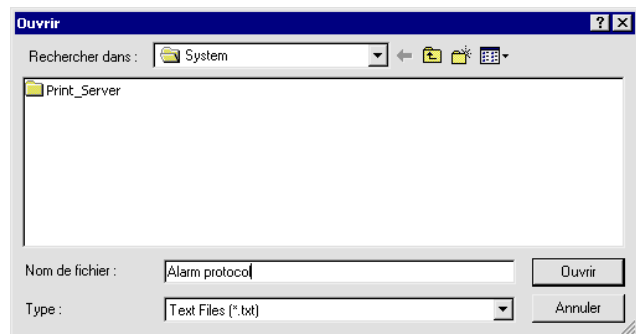


Fig. 7-14 Windows dialog box

Using the 'Copy lines/page' menu items, a line or a page of the relevant protocol can be copied to the clipboard and pasted into another application (e.g. Word).

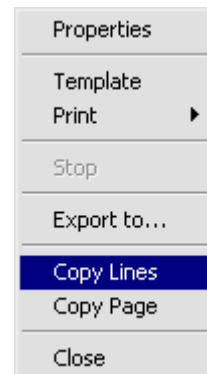


Fig. 7-15 Copy function

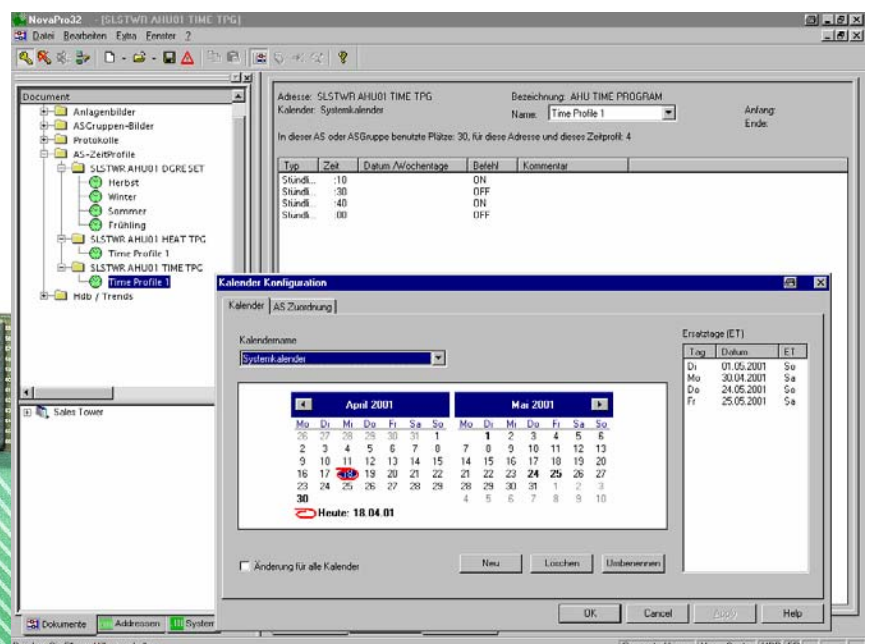
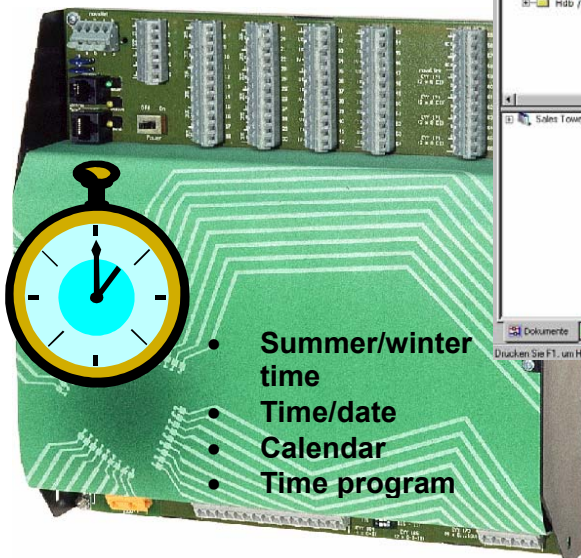
8 Time programme



The calendar and the time programmes based on it are used to specify the time behaviour of automation station (AS) addresses. 320 time commands are possible per AS (or 64 for **ecos**). Special days (public holidays, vacation, etc.) - i.e. variations from the annual calendar - can be parameterised in the calendar (see Chapter 9).

Both the calendar and the time programmes are saved in the automation stations. Configuration is menu-prompted from **novaPro32**, or from the nova240 hand-held terminal.

nova240



Configuring the calendar and time programme straight from novaPro32

8.1 Create a new time programme

Use the 'File| New| Time programme' menu command to create a new time programme, or select the 'New AS Time programme' command from the context menu for folder 'AS Time programmes' in the novaPro32 document browser (see Chapter 5.1). Then select a house address for which you want to create a time programme.

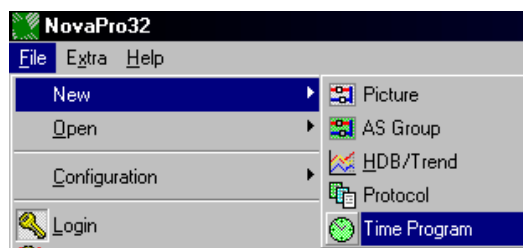


Fig. 8-1: Create a new time programme

8.1.1 Select address

Context menu

Use the context menu for the time programme (right-hand mouse button) (see Fig. 8-2) to go via 'Selection' to the properties window (see Fig. 8-3):

From the address selection (see Fig. 8-4), select the house address for which you want to create a time programme.

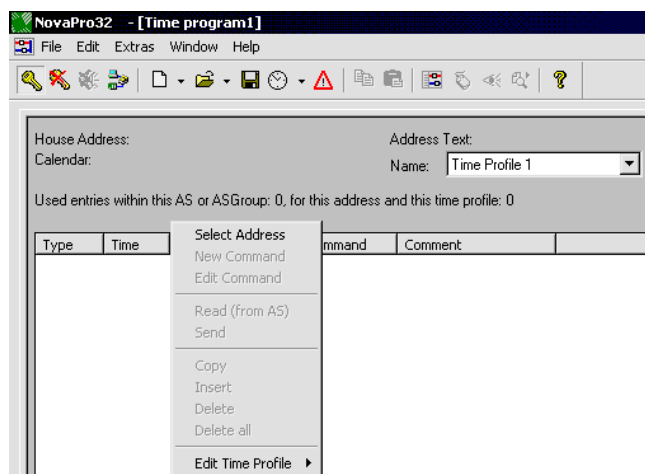


Fig. 8-2: Context menu for the time programme

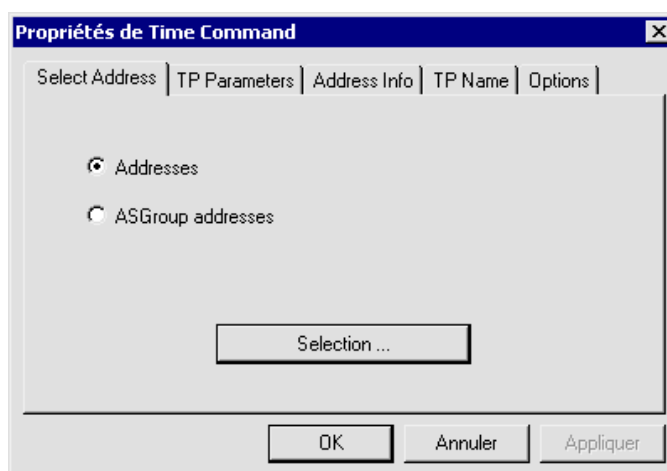


Fig. 8-3: Properties

In 'Address Selection', you can select the address which is to be given a time programme.

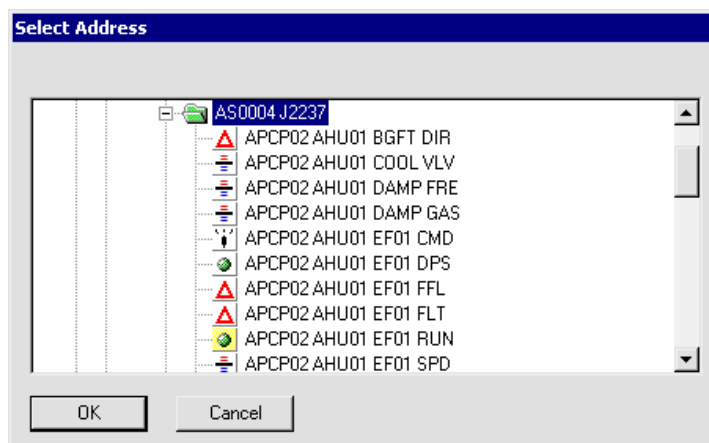


Fig. 8-4: Address selection

Address browser:

You can also insert the address you want directly from the address browser, using 'drag and drop'.

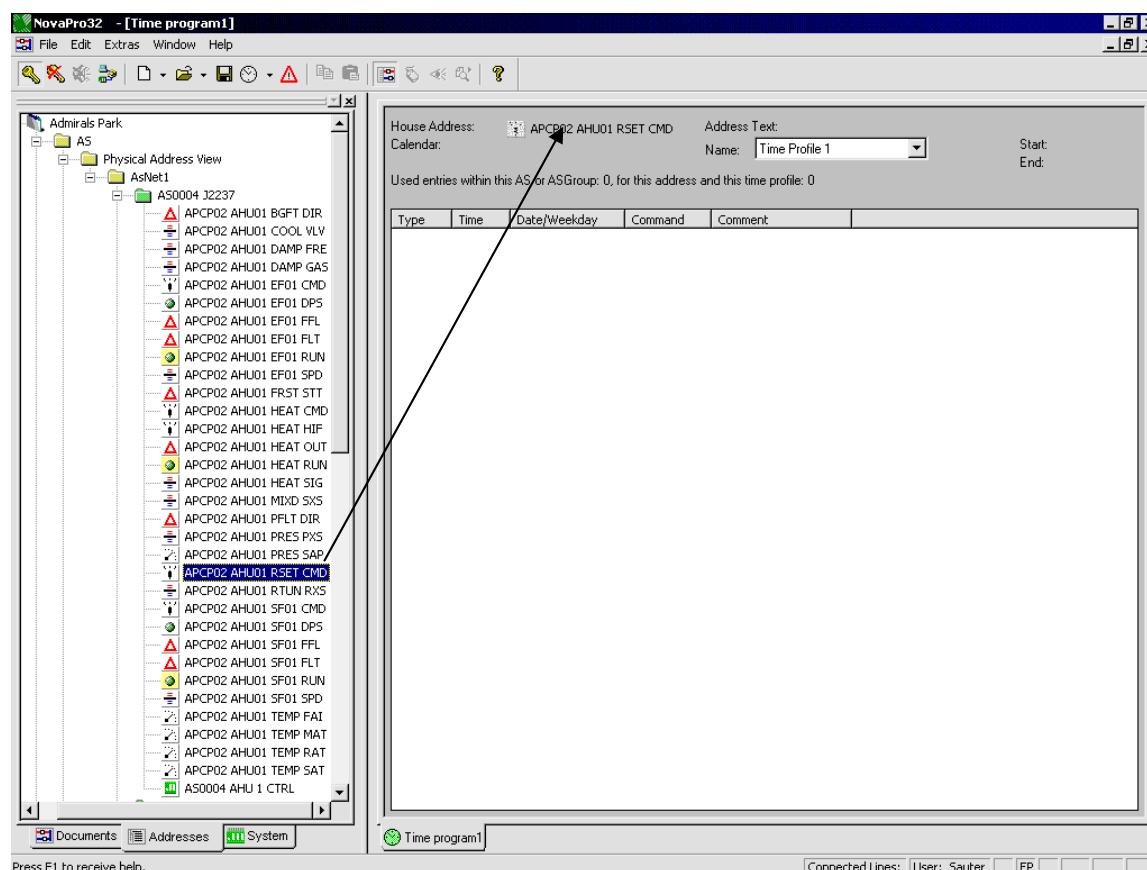


Fig. 8-5

8.2 Opening an existing time programme template

Open a time programme that already exists from the 'File|Open|Time programme' menu and select a time programme that already exists from the file selection box.

Alternatively, you can open a time programme template with the 'Open' icon in the icon bar, with a button configured for this purpose in a **novaPro32** picture, or by double-clicking on the relevant time programme icon in the novaPro32 document browser.

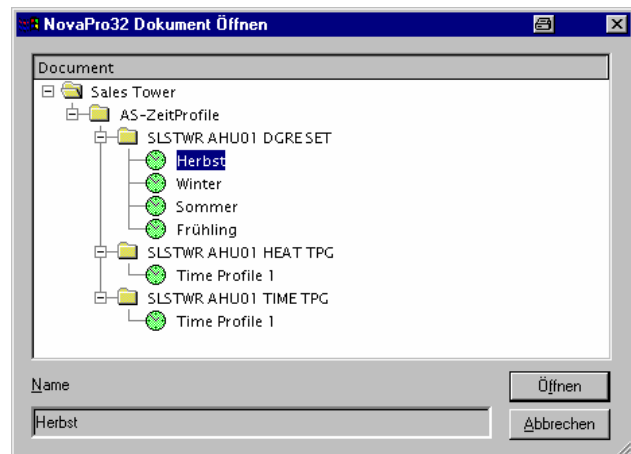


Fig. 8-6: Opening a time programme

Selected house address

Current calendar in the automation station

Name of time programme

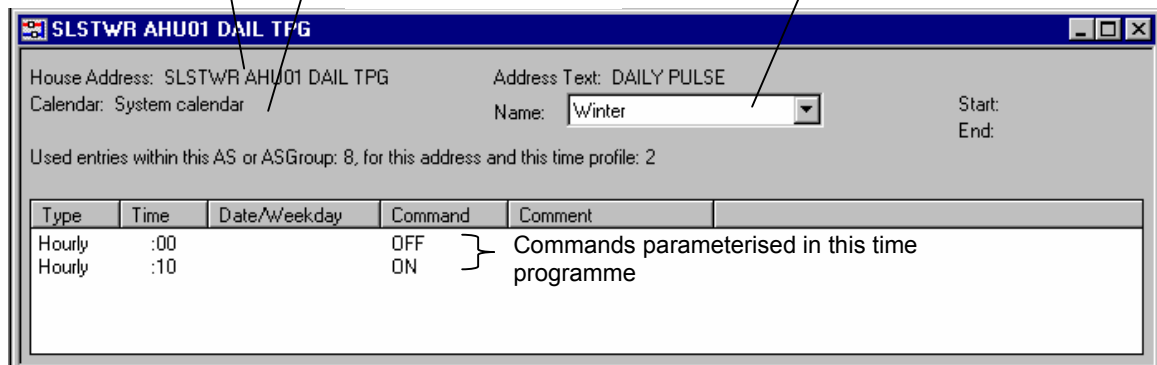


Fig. 8-7: Time programme

8.3 Read a time programme from the AS

Parameterisation of the time and holiday programs can also be handled by other AS network participants (non-networked novaPro32 operating stations) or with the 'nova240' manual user panel. This makes it **necessary** to read the current data for an address from the automation station before you change the time programme.

Use the 'Read (from AS)' command in the context menu (right-hand mouse key) (see Fig. 8-8) to read the time programme for the selected address back from the AS into **novaPro32** and to display it.

If no entry is present, you will see this message:

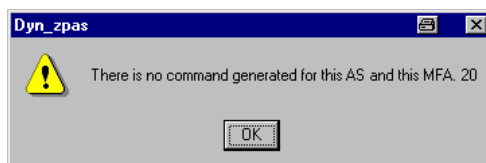


Fig. 8-9

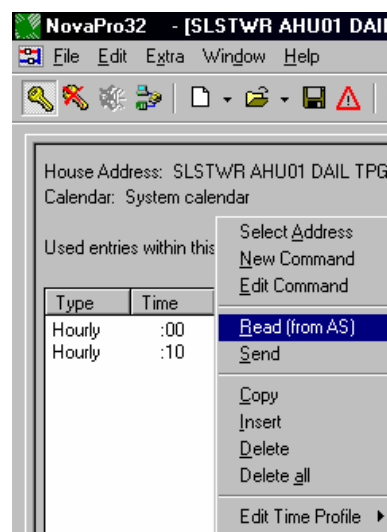


Fig. 8-8: Context menu

8.4 Edit a time programme

8.4.1 Add a new command

To insert a new command into a time programme, select the 'New command' command from the context menu (right-hand mouse button). The 'Dyn_pas Control Properties' window will open.

On the 'TP-Parameters' tab, select the command you want (see Fig. 8-10).

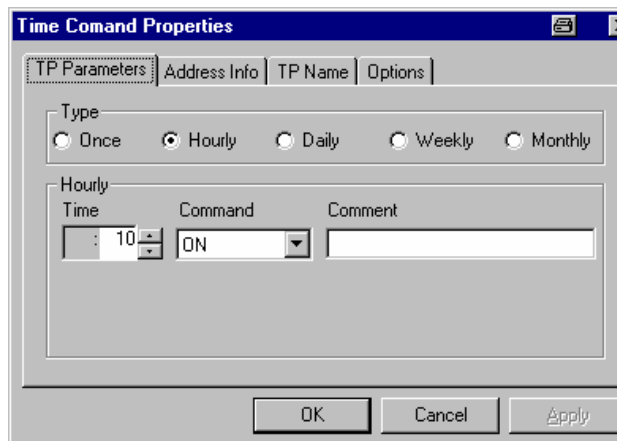


Fig. 8-10: Time programme parameterisation

8.4.2 Change a time command

Select this procedure to change a command in an existing time programme:

- select the command you want in the time programme.
- select the 'Change command' command from the context menu (right-hand mouse button).
The 'Dyn_pas Control Properties' window will open.
- Make the changes you want.

8.4.3 Time command selection

Select the command you want in the 'Dyn_pas Control Properties' window on the TP Parameters tab:

Click on the program type that you want, and the next section of the window will be adjusted.

Once:

Time:

Hour:	0-23	Time: hour
	*	every hour
Minute:	0 - 59	time: minute
	P4	every four minutes (0, 4, 8, 12, 16, ...)
	P8	eight times per hour (3, 11, 19, 27, 33, 41, 49, 57)
	P15	every quarter of an hour (00, 15, 30, 45)
	P30	every half-hour (00, 30)

Command:

The possible commands depend on the address type and its parameterisation.

on:

Day:	1 - 31	day of the month
Month:	1 - 12	month
Year:	1997 -2059	calendar year
	0	every year

Comment: maximum of 32 characters

Hourly:

Hourly
Time
Command
Comment

:

17

ON

Time:

Minute:	0 - 59	time: minute
	P4	every four minutes (0, 4, 8, 12, 16, ...)
	P8	eight times per hour (3, 11, 19, 27, 33, 41, 49, 57)
	P15	every quarter of an hour (00, 15, 30, 45)
	P30	every half-hour (00, 30)

Command:

The possible commands depend on the address type and its parameterisation.

Comment: maximum of 32 characters

Daily:

Daily
Time
Command
Comment

18

:

17

ON

Time:

Hour:	0-23	Time: hour
Minute:	0 - 59	time: minute
	P4	every four minutes (0, 4, 8, 12, 16, ...)
	P8	eight times per hour (3, 11, 19, 27, 33, 41, 49, 57)
	P15	every quarter of an hour (00, 15, 30, 45)
	P30	every half-hour (00, 30)

Command:

The possible commands depend on the address type and its parameterisation. (see the 'Command codes' table)

Comment: maximum of 32 characters

Time programme

Weekly:

Weekly
Time
Command
Comment

18: 17

ON

Select Day

Time:


Hour:	0-23	Time: hour
	*	every hour
Minute:	0 - 59	time: minute
	P4	every four minutes (0, 4, 8, 12, 16, ...)
	P8	eight times per hour (3, 11, 19, 27, 33, 41, 49, 57)
	P15	every quarter of an hour (00, 15, 30, 45)
	P30	every half-hour (00, 30)

Command:

The possible commands depend on the address type and its parameterisation. (see the ‘Command codes’ table)

Comment: maximum of 32 characters

Day selection:

Check the boxes:  = active

Do not use special day code

☒ Monday

☒ Tuesday

☒ Wednesday

☒ Thursday

☒ Friday

☐ Saturday

☐ Sunday

☐ Special Day 1

☐ Special Day 2

☐ Special Day 3

☐ Special Day 4

☐ Special Day 5

☐ Special Day 6

☐ Special Day 7

☐ Special Day 8

OK

Cancel

Monthly:

Monthly
Time
Command
Comment

20: 10

ON

every

13

Day

Day

of the month

Time:

Hour:	0-23	Time: hour
	*	every hour
Minute:	0 - 59	time: minute
	P4	every four minutes (0, 4, 8, 12, 16, ...)
	P8	eight times per hour (3, 11, 19, 27, 33, 41, 49, 57)
	P15	every quarter of an hour (00, 15, 30, 45)
	P30	every half-hour (00, 30)

Command:

The possible commands depend on the address type and its parameterisation. (see the ‘Command codes’ table)

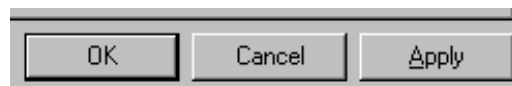
every:

day: **1 - 28** day of the month

Comment: maximum of 32 characters

8.4.4 Entry in the list

If all the parameters are correct, they must be transferred to the list line by line.



Press the '**Apply**' button to transfer the data into the list. You can perform other parameterisations for this address directly.

Press the '**OK**' button to transfer the data into the list, and the properties tabs will be closed.

Press the '**Cancel**' button if you do not want to transfer the last data that you parameterised, and the properties tabs will be closed.

8.4.5 Edit commands

You can edit the command lines of a time programme using the 'Copy', 'Add', 'Delete' and 'Delete all' commands.

To do this, select the command line(s) that you want, open the context menu and select the command.

8.5 House addresses with several time programmes

Several time programmes can be assigned to one house address in novaPro32. However, only one time programme is ever active in the automation station.

Use several time programmes per house address if you want to run a different time program on the automation station in a particular season, for example. This enables you to prepare the time program in advance on your PC so that you can load it into the automation station at the relevant time. The old settings will then stay saved on your PC (in the old time programme). This means you can always refer back to the old settings.

You can edit the time programmes with the commands from the 'Edit time programme' sub-menu of the time programme context menu (see Fig. 8-11).

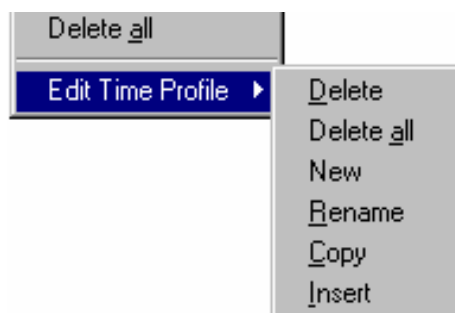


Fig. 8-11: The 'Edit time programme' sub-menu

8.6 Send to AS

After you have finished parameterising the address you want, the data must be sent to the AS.

Press the right-hand mouse button and click on **'Send'**.

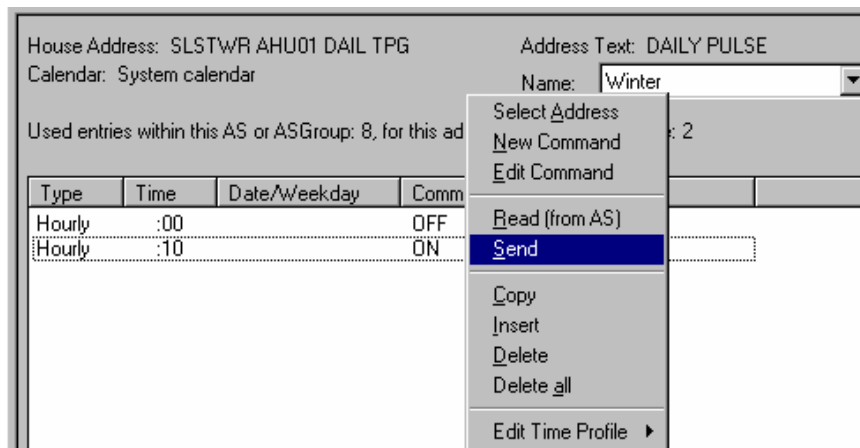


Fig. 8-12



The warning shown opposite appears before the download:

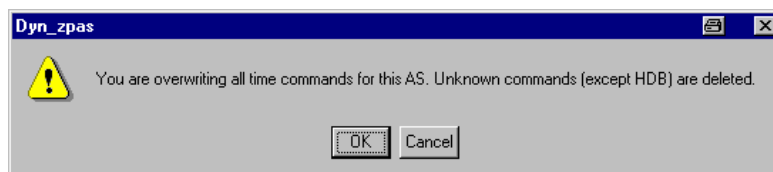


Fig. 8-13

- Confirm entries with **'OK'**.
The data will be sent.
- Press **'Cancel'** to exit without sending.

9 Calendars



The calendars form the basis for the time programs of the EY3600 system.

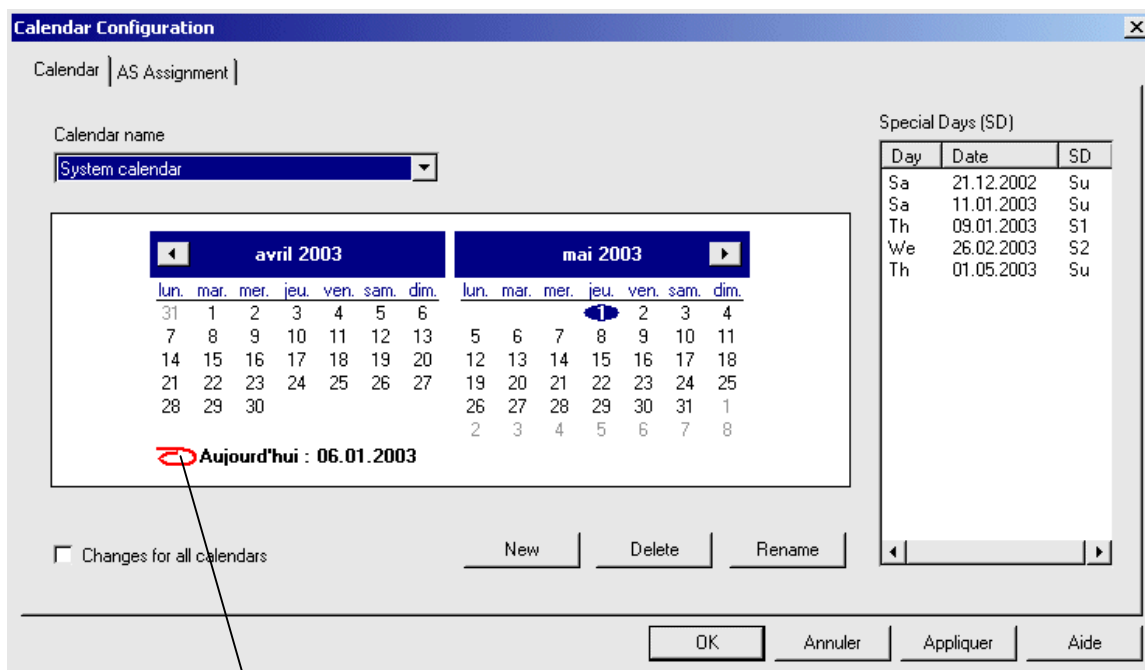
The AS calendar serves as the basis for the automation station time programs; once it has been configured successfully in **novaPro32**, it is loaded into the automation stations; this means that the calendar is stored in the automation stations. This guarantees that the time programs will run correctly, regardless of novaPro32's operating status. The system calendar is assigned to all the automation stations by default.

With the **novaPro32** calendar configuration, you can assign a substitute (special) day to every day within 2 years (even and uneven year numbers); this means that you can assign 'Sunday' as the substitute day of the week for the public holiday on 25 December. For all time programs based on the day of the week, 25 December will then behave like a Sunday, regardless of the actual day of the week on which it falls.

As well as the normal days of the week (Monday to Sunday), eight special days are available. The special days can be called up within the time programs like days of the week. They can be used to define exceptional days for time programs based on days of the week.

You can open or edit a calendar on the basis of your user rights.

In **novaPro32**, you can parameterise as many AS calendars as you want, and you can load them into the automation stations as required.



Click here to skip to today.

Fig. 9-1: Calendar configuration, overview

9.1 Create a new calendar

Use the 'File | Configuration → Calendar' menu to go to the calendar configuration. On the 'Calendar' tab, select the calendar you want in the 'Calendar name' box. In **novaPro32**, you can parameterise as many AS calendars as you want, and you can load them into the automation stations as required, or you can define different calendars for various automation stations.

- Enter a new name in the 'Calendar name' field.
- With the left-hand mouse button, click on the 'New' command button → the new calendar is created.



The system calendar cannot be deleted!

9.2 Delete a calendar

- Select a calendar in the 'Calendar name' box



The system calendar cannot be deleted!

9.3 Rename a calendar

- Select a calendar in the 'Calendar name' box.
- Enter a new name in the 'Calendar name' box.
- With the left-hand mouse button, click on the 'Rename' command button.
The calendar will be saved under the new name.



The system calendar cannot be renamed!

9.4 Assign a special day

You can assign a substitute day to any day of the year. To do this, use the mouse to select a date, and then assign a substitute day to the date with the help of the 'Select Day' window.

You can choose the substitute days from the 7 days of the week (Monday to Sunday) plus 8 special days.

The 'Special Day (SD)' field lists all dates which have substitute days assigned to them.

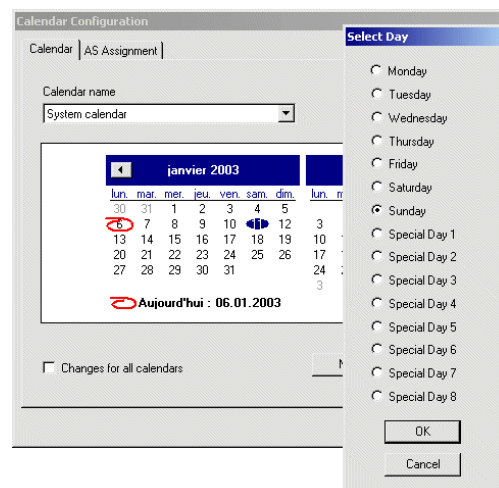


Fig. 9-2: Assigning a special day

9.5 Deleting a special day

- With the mouse, select the date whose special day you want to delete.
- With the help of the 'Select Day' window, assign the real day of the week. The date will immediately be deleted from the 'Special Day (SD)' field.

9.6 Assign an AS to a calendar

An automation station is always assigned to a calendar. Every automation station is assigned to the system calendar by default.

To assign a station to another calendar, it is advisable to proceed as follows:

- Select the 'AS Assignment' tab
- Select the system calendar in 'Calendar name'.
- From the list on the right, select an automation station and use the '<' command button to move it into the 'AS not belonging to any calendar' field.
The automation station is temporarily not assigned to any calendar.



Fig. 9-3



When you exit from the calendar configuration, all automation stations in the field 'AS not belonging to any calendar' are automatically assigned to the system calendar.

- Select an AS calendar in 'Calendar name'.
- From the list on the left ('AS not belonging to any calendar'), select an AS and use the '>' command button to move it into the right-hand field.
- Click on the 'Send' command button to load the new calendar into the automation station.

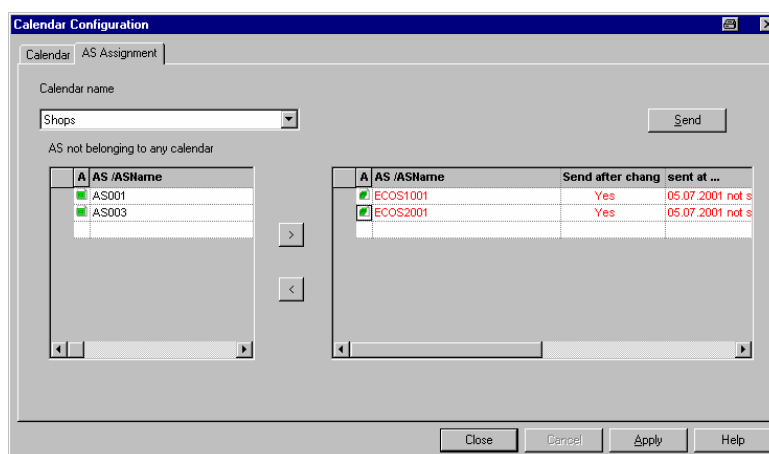


Fig. 9-4: Assigning an automation station to a calendar

'Send after change' parameter :

Use the 'Send after change' parameter to specify whether the calendar should automatically be loaded into the assigned automation station if there is a change. This parameter is set to 'No' by default.

If the parameter is set to 'No', you must trigger the calendar download into the assigned automation stations manually, by clicking on the 'Send' button.

Automation stations or AS groups which do not respond when the calendar is loaded are marked in red. In this case, please check the data connection to the stations mentioned.

A	AS /ASName	Senden bei Änderung	gesendet am ...
07 20	H-07 HZ/BMW/LUE	Ja	29.11.2002 14:04:08
09 01	H-09 HZ / BMWV	Ja	29.11.2002 14:04:08
		Nein	

Fig. 9-5: Parameters 'Send when changed'

Example - Fig. 9-4

In the example mentioned, the automation stations designated as AS2 and AS3 are assigned to the calendar designated as 'Business'. If there is a change, the calendar is immediately loaded into automation station AS2 (the 'Send after change' parameter is set to 'Yes').

However, the calendar is not automatically loaded into automation station AS3 (the 'Send after change' parameter is set to 'No'). With the left-hand mouse button, click on the 'Send' command button so that the calendar is loaded into automation station AS3.

Automation stations AS4 and AS5 are not assigned to any calendar. You can use the '>' command button to assign these stations to the 'Business' calendar. If you do not assign the stations to a calendar and you exit from the 'Calendar Configuration' dialogue, the system calendar is assigned to all the automation stations in the 'AS not belonging to any calendar' field.

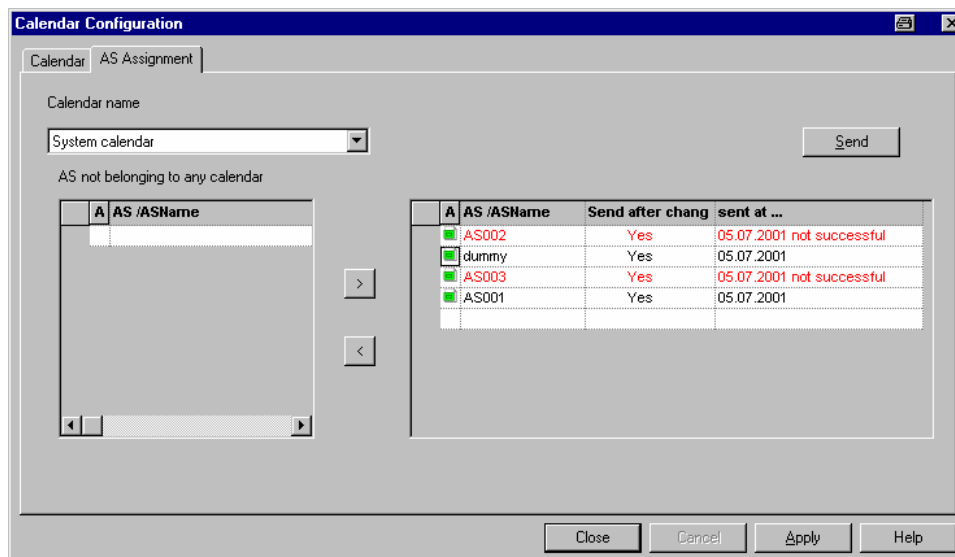


Fig. 9-6: Result of 'Send'



10 Historical database/Trend



novaPro32 offers you a convenient tool to display measured values, status and alarm messages in graphic form. This enables you to record current process values as well as historical data in the form of charts or tables.

Charts show the progression of process values over time in graphic form. You can also refer to the values stored in the historical databases, or you can show the current process progression online.

You can define, edit and view a chart. It is displayed in a window where up to 10 activities (addresses) can be shown at the same time, each with its own colour and form.

10.1 Show new HDB/Trend

Open a new HDB/Trend using the 'File | New → HDB/Trend' menu, the 'New' icon in the icon bar, or the 'New HDB/Trend' command in the context menu of the **novaPro32** Document Browser.

The window that will now appear on the screen consists of 3 frames: Title Lines (at the very top), Graphic (left) and Table (right) (see Fig. 10-8).

Use the context menu (right-hand mouse button) of the 'Title' frame to go to the Properties window, where you can specify all the settings such as the address selection, type of presentation, time slot, etc.

The 'Address' tab shows an overview of all selected addresses (see Fig. 10-1). Mouse-click on the 'Addresses' command button to go to 'Address Selection' (see Fig. 10-2)..

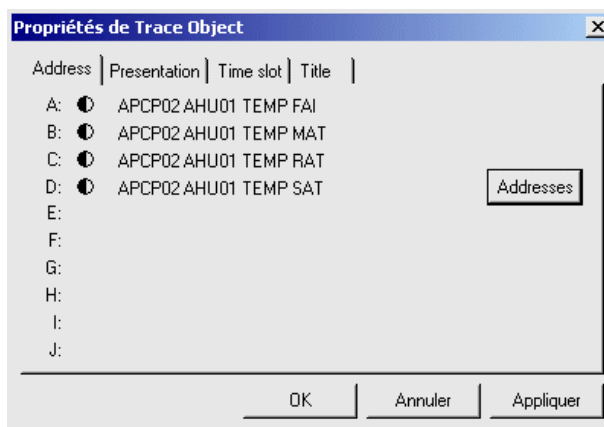


Fig. 10-1: HDB/Trend Properties

Historical database/Trend

In the list of all addresses in the address selection, use the left-hand mouse button to mark one address, and copy it into the list of selected addresses with the help of the 'Main function' or 'Extra function' command buttons.

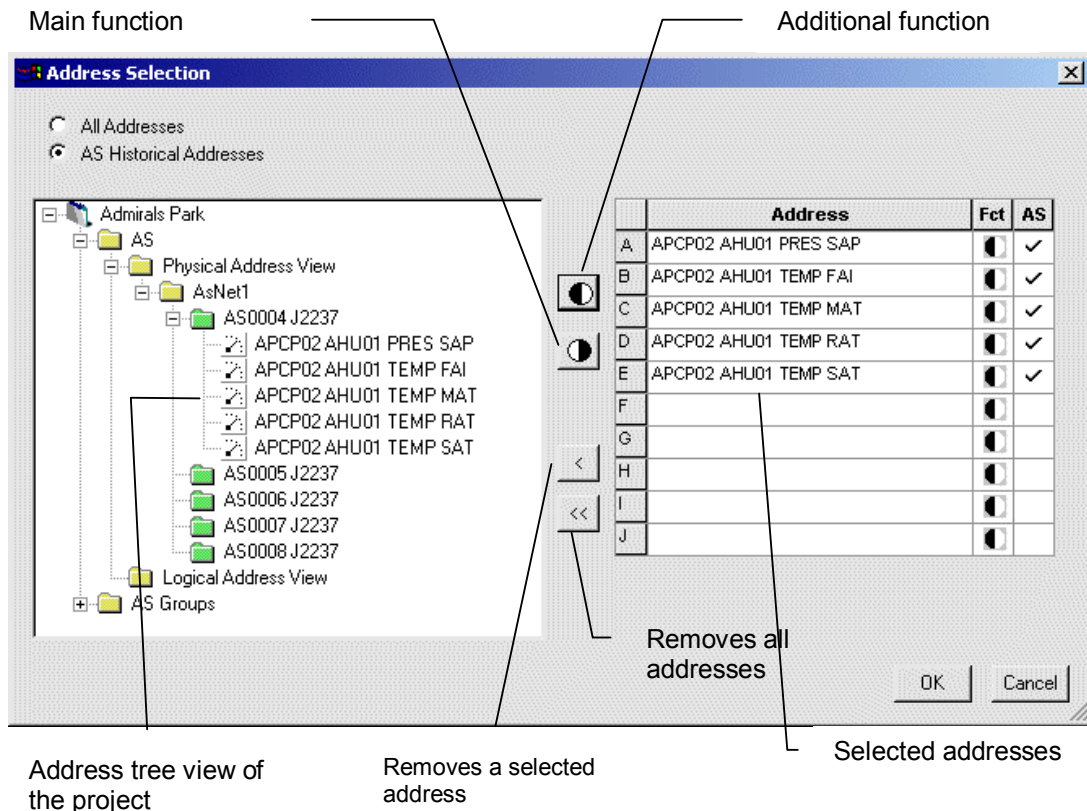


Fig. 10-2: HDB/Trend-address selection

Use the 'Address Presentation' tab to specify the colour and line type in the graphic for each selected address. The 'Decimal Places' box defines the way numbers are shown in the table.

At 'Graphical Presentation', you can indicate a linear correction for analogue values, so that several measured values can be adjusted to one common Y-axis.

The 'Connection' field enables you to portray a curve with either a point-to-point or a stepped connection.

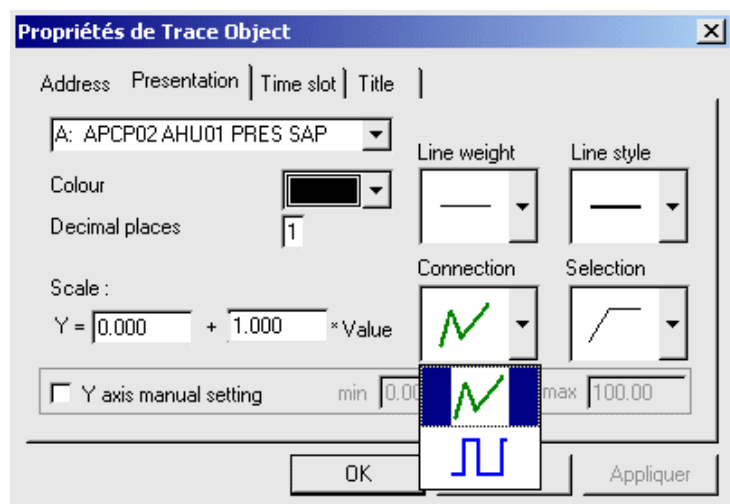


Fig. 10-3: 'Address Presentation' tab

The 'Time Slot' tab defines the period of time to be shown.

With **Request Type 'Historical Data (HDB)'**, you can set a start date and an end date to define a period of time from which historical data should be shown. In this operating mode, only data from the historical database (HDB) are shown.

With **Request Type 'Trend'**, you define a period of time. This period determines the time span of the display window. The graphic will then show all spontaneous messages from the selected addresses from the current time onwards.

With **Request Type 'Trend + HDB'**, data from the past are read from the historical database and displayed. The display is automatically continued for any desired period with spontaneous messages from the selected addresses.

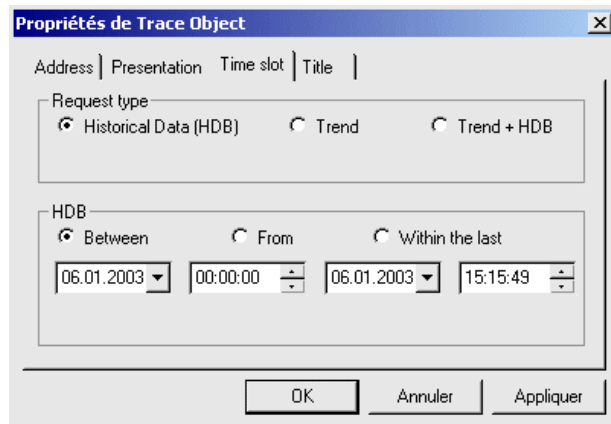


Fig. 10-4: 'Time slot' tab

Use the 'Title' tab to define the header for the HDB graphic. In the 'Key' area, you can select attributes such as the address, address text and units which are to be used to identify the selected addresses.

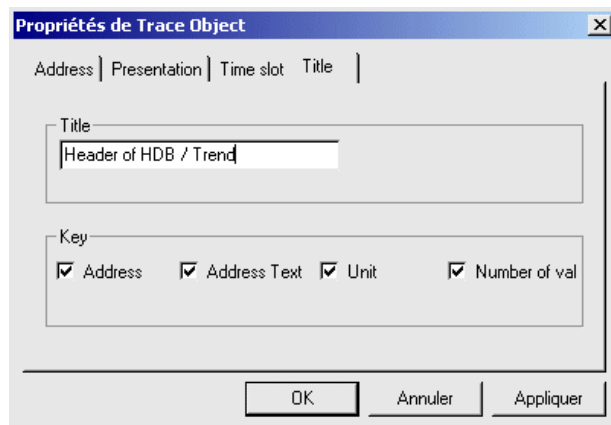


Fig. 10-5: 'Title' tab

Finally, you can save the configuration for HDB/Trend on the PC's hard disk. To do this, select the 'Save' command from the 'File' menu and enter a designation in the dialogue that appears now. The HDB/Trend configuration is automatically stored in the 'HDB/Trends' folder of the novaPro32 Document Browser (see Fig. 10-6).

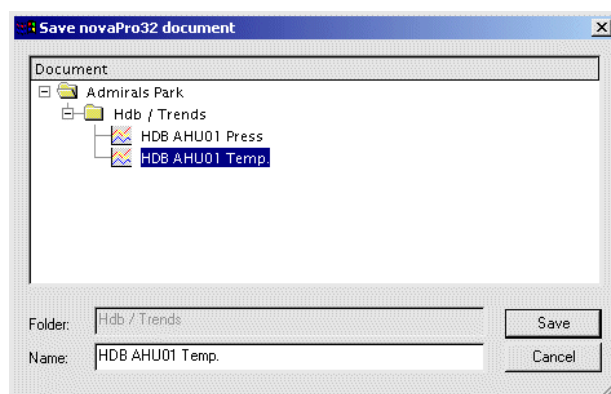


Fig. 10-6: 'Save' dialogue box



Please note: No data (such as measured values, status, etc.) are saved. Only the configuration (address selection, address presentation, time slot and title) is saved.

10.2 Open HDB/Trend

To open a saved HDB/Trend configuration, use the 'File | Open → HDB/Trend' menu or the 'Open' icon in the icon bar, or double-click with the left-hand mouse button on the relevant file in the novaPro32 Document Browser.

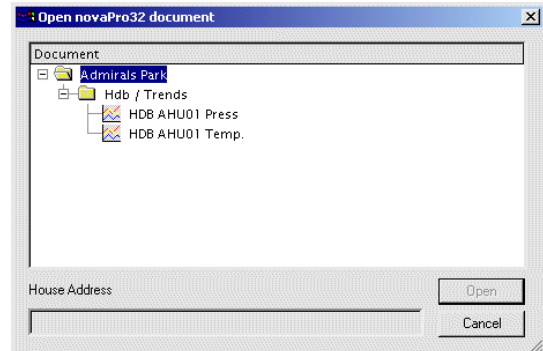


Fig. 10-7 List of configured HDBs



An HDB/Trend file of this sort does not contain any data. The file only contains the settings made in the Properties window, such as the address selection, type of presentation, time slot, etc. After the file is opened, the data are read by the HDB server and the automation stations.

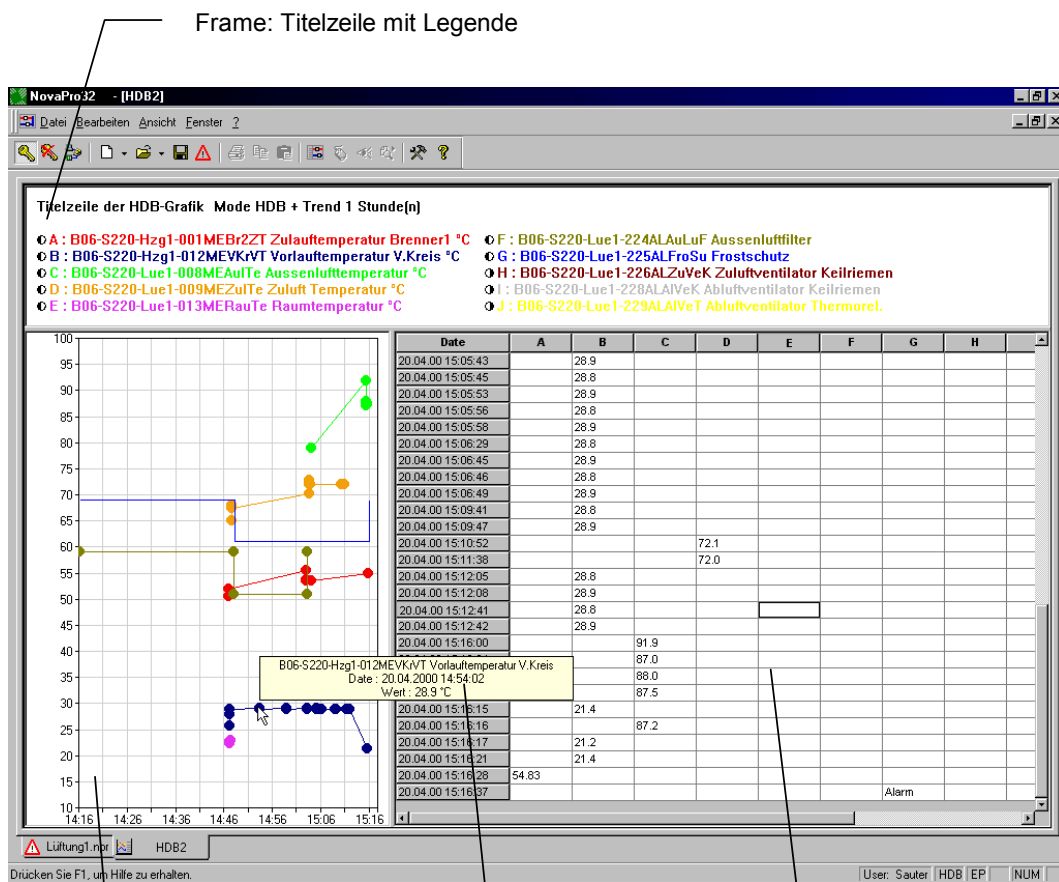


Fig. 10-8: HDB/Trend as graphic and as table

10.3 Working with HDB/Trend

Frame edges

You can adapt the presentation of the HDB/Trend window to your individual requirements. To do this, keep the left-hand mouse button pressed down and drag the frame edges to the positions you want. When you close the HDB/Trend window, you can save the window configuration you set, so that the view you want is shown immediately when you call the window up later on.

10.3.1 Edit graphic zone

Zoom

You can enlarge a graphic shown in the left frame as you wish, to view it in detail. To do this, keep the left-hand mouse button pressed down and mark the section you want. The marked section will immediately be shown in enlarged view.

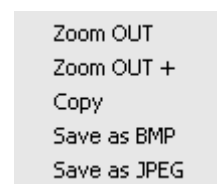


Fig. 10-9

The 'Zoom Out' command in the context menu reverses the last zoom action – in other words, you return to the previous view.

Tool tip: View the house address, the value and the time of origin of the chosen value on the curve (break point of a curve or entry point of a stepped connection; see Fig. 10-3 Fig. 10-3: 'Address Presentation' tab).

Copy:

The 'Copy' function in the chart and table context menu allows data exchange with other programs.

'Copy' in the chart context menu places a copy of the graphic on the Windows clipboard. This enables you to paste and edit the graphic in another Windows program.

'Copy' in the table context menu copies the table cells you have just selected onto the clipboard. This makes it easy to paste the data into Microsoft Excel where you can continue editing them.

10.3.2 Edit table sector

Copy: With the aid of this context menu, you can paste a number of lines into another document (e.g. in Word) via the clipboard.



Fig. 10-10

Context-menu table sector

Export: This makes it possible to save a table of values (shown on the screen) as a .txt file under a defined name.

10.3.3 Edit title and legend sector

Export & print-out: With the aid of this context menu, you can print out and export the graphic with the title and the legend. (See Fig. 10-12 Example of exported graphic).



Fig. 10-11

Context-menu title sector

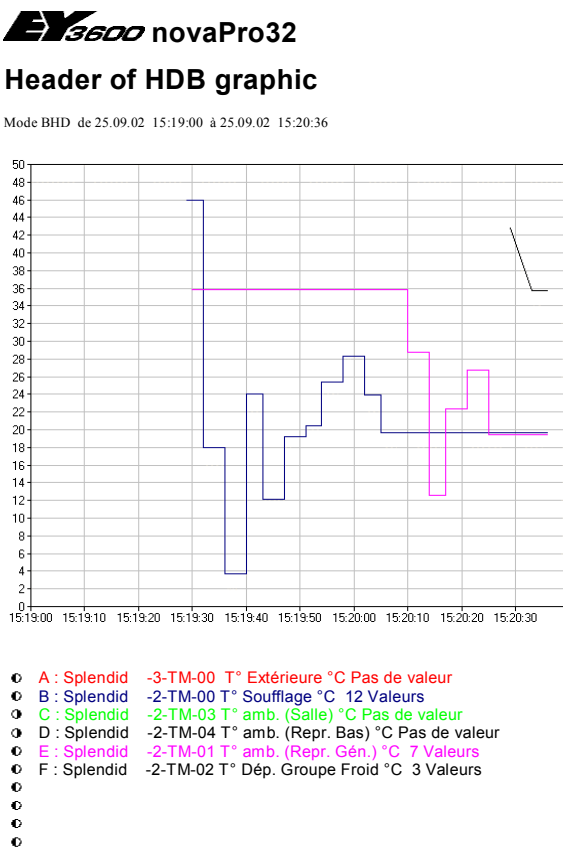


Fig. 10-12 Example of exported graphic

N.B.: The file HDD_TEMPLATE.rtf in the Shareable_Data/System folder serves as a template for exporting and printing out. The exported file is in the same folder under the file name HDBview.rtf.

The graphic portrayal is edited on the Windows default printer.

Properties: With this, the parameters of the viewed HDB can be edited. (See also Chapter 10.1 Show new HDB/Trend)



The manual print-out of a graphic is always issued on the Windows default printer.



novaPro32 Users

Historical database/Trend

EX₃₆₀₀

11 PC time programmes

11.1 Introduction

The system's Task Manager (Scheduler) provides the ability to set parameterisable time-planned tasks, such as:-

- Protocol print-out
- Exporting the HDB data
- Load time programmes into the AS
- Send calendar to the AS
- Time synchronisation for AS

The PC time programmes (PC-TPs), which appear as a clock in the menu bar, are used to parameterise time-dependent commands. The various PC-TPs are shown in Fig. 11-1.

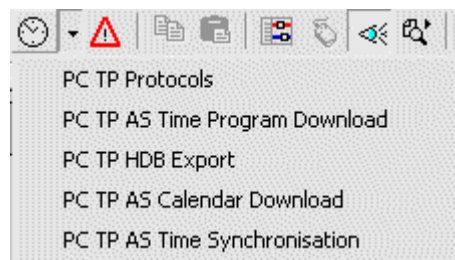


Fig. 11-1 Dialog box for the PC time programmes

11.1.1 Common functions

This part concerns the functionality that is the same in all PC time programmes.

11.1.1.1 Context menu

The context menu is called up by right-clicking in the empty area Fig. 11-8.

Explanation of functions:-

- **New** lets you define a new time programme.
- **Modify** lets you change an existing time programme.
- **Copy** lets you copy and adapt an existing time programme.
- **Delete** lets you delete an existing time programme.
- **Execute** lets you manually perform the chosen command line.

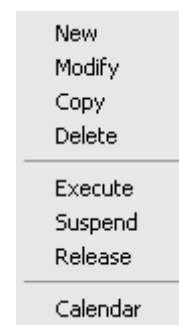


Fig. 11-2 Context menu



This option from the context menu prevents a command line from being executed twice simultaneously.

The message confirms that the command has already been issued by the Scheduler.

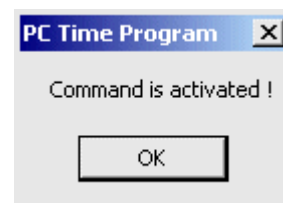


Fig. 11-3

If another command line is being processed, the manual request for execution cannot be performed immediately. The manual job will not be processed until the first job has been done. There is no message confirming the end of the execution.

The message (see Fig. 11-4) appears whenever a new manual request is made while the previous one is still being processed.

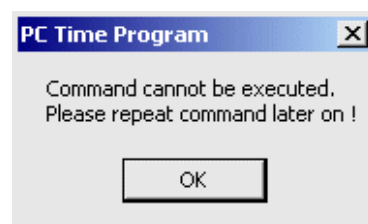


Fig. 11-4



N.B.: Too many manual requests can affect the entire functionality, since every execution places an additional load on the system.

- **Suspend** lets you choose and deactivate one or more command lines. The suspended task is marked with an (x) in the 'S' column Fig. 11-34.
- **Release** lets you revoke the command suspension.
- **Calendar** lets you view or change a calendar that is assigned to a command line.

11.1.1.2 Evaluating the created .txt files

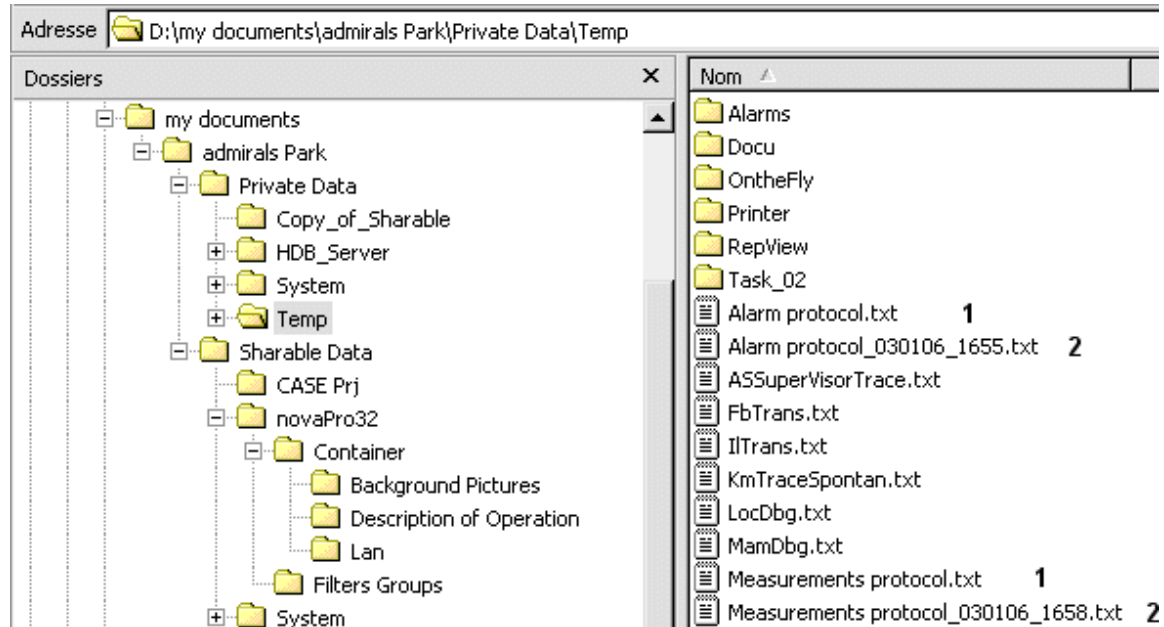
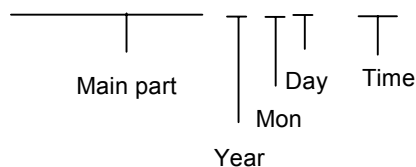


Fig. 11-5

In the window Fig. 11-5, note the following:-

- The basis files are annotated with a '1'.
Example: Alarm protocol.txt
- The following files, which have been executed automatically, are annotated with a '2'.

Example: Alarm protocol_021212_1747.txt



It is advisable to create special folders (e.g.: *Temp* or a specific folder) so that novaPro32's working folder does not get too full. This also makes it easier to edit the automatically created files.



Monitor the amount of storage space on the hard disk!

11.1.1.3 Editing the viewed PC TP list

Example of a PC time-programme list for HDB Export:-

S	Job	Type	Time	Date/Weekday	Calendar	Target	Next execution	Last execution
5	Alarms protocol	once	09:00	07.01.2003	----/----	D:\my documents\admirals Park\Private Data\Te...	07.01.2003 09:00	----/----
	Measurements protocol	hourly	:57		----/----	D:\my documents\admirals Park\Private Data\Te...	07.01.2003 07:57	07.01.2003 0
	Measurements protocol	weekly	07:30	Mon-Fri	System calendar	D:\my documents\admirals Park\Private Data\Te...	08.01.2003 07:30	----/----

Fig. 11-6

- Explanation of the/.... signs:-
 - In the **Calendar** column → No calendar used.
 - In the **Next execution** column → No time can be calculated for the next execution.
 - In the **Last execution** column → No time command has yet been executed.
- Shown in red on a pink background:-
 - In the **Last execution** column → Automatic treatment was not performed correctly. Additional information concerning the problems that have arisen can be found in the logbook.
 - While the PC TP window is being visualised, the **Next execution** and **Last execution** columns are not updated automatically.

Note: On clicking the header in each column, the values are not only sorted (ascending/descending), but also updated with date and time.

11.2 Automatic execution of protocols

In this menu item, you can parameterise the date and time for automatically carrying out the chosen protocol. These are the protocols that were pre-defined. See Chapter 7 Protocols and Fig. 7-10: Protocol selection.

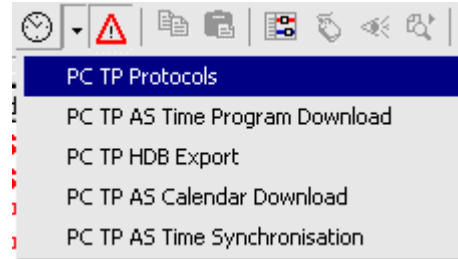


Fig. 11-7

On activating the command line (Fig. 11-7), there appears window Fig. 11-8 in which the parameterisation can be carried out.

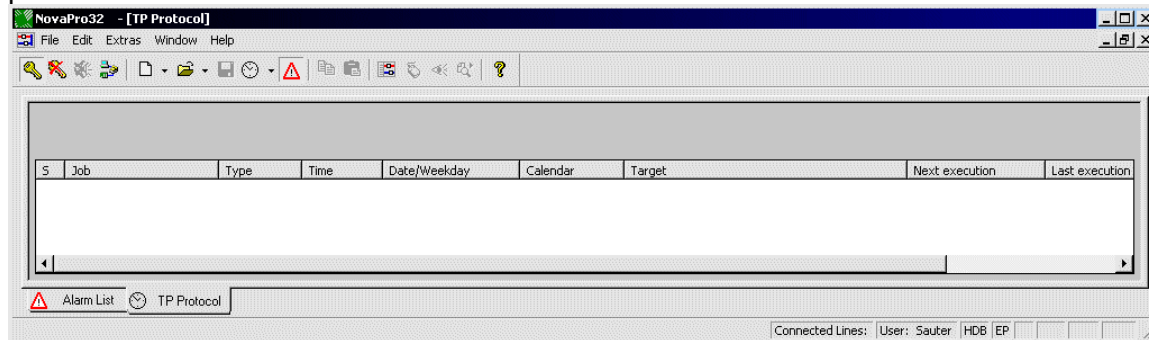


Fig. 11-8 PC TP for protocols

11.2.1 Context menu

On right-clicking the empty space Fig. 11-8, the context menu appears.

(See Chapter 11.1.1.1 Context menu under Common functions)

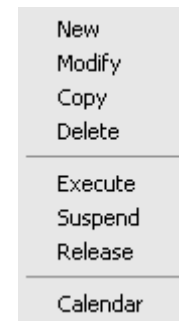


Fig. 11-9 Context menu

11.2.2 The 'Selection' card

After having selected the 'New' and 'Modify' items, the 'Properties of Dyn_schedule Control' card appears.

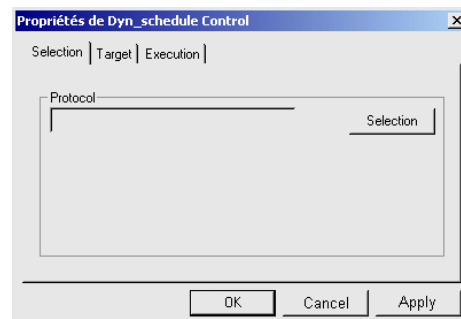


Fig. 11-10

On activating the 'Select' item, there appears the dialog box in which the preferred protocol can be chosen. The executed protocols in Fig. 10-11 are the ones that were defined in Chapter 7 Protocols. Press **OK** to confirm.

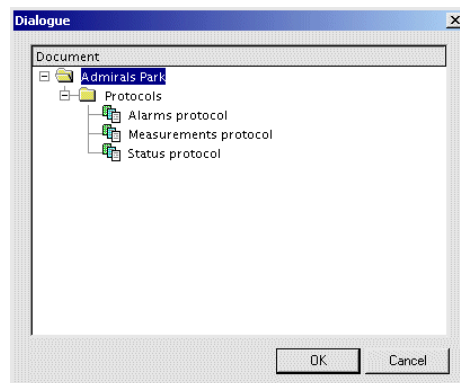


Fig. 11-11 Dialog box

11.2.3 The 'Target' card

This card is used to set the Medium target for the protocol. The target can be one or more printers and a **single** '.txt' file.

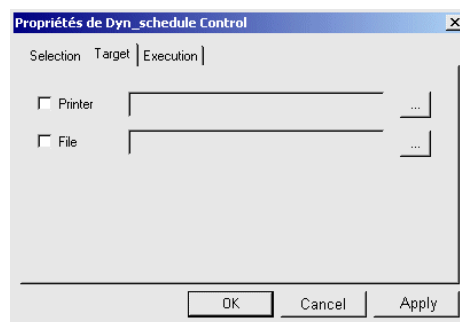


Fig. 11-12 The 'Target' card

If the 'Printer' field has been chosen, Fig. 11-13

appears via the  button.

Procedure:-

Select one or more printers from the list of available printers and use the '>' button to add them to the window for the selected printers.

(The page printers should be pre-defined; see Chapter 12 in the manual 7 000904 001 P11 novaPro32 Configuration)

Confirm by pressing **OK**.

The printer(s) should be entered in the 'Printer' line; see Fig. 11-14.

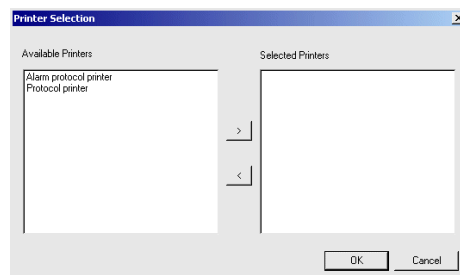



Fig. 11-13 Selection window

On choosing the 'File' field and pressing the  button, Fig. 11-15 appears.

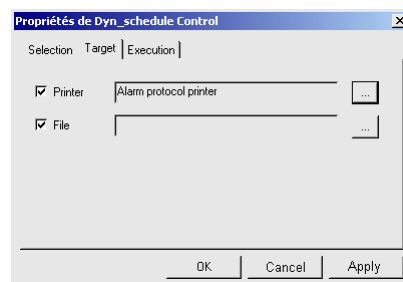


Fig. 11-14

In this window, you set the target location with name of file, e.g. 'Alarm protocol'.

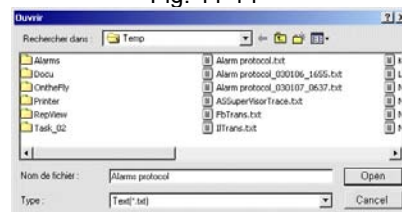


Fig. 11-15

The file is saved with '.txt' extension in the chosen folder Fig. 11-16.

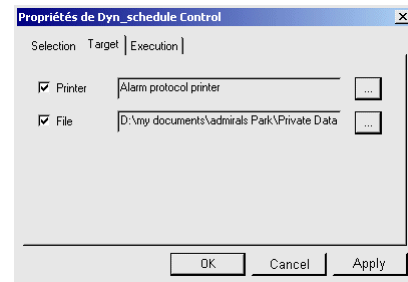


Fig. 11-16

11.2.4 Evaluating the created txt files



It is advisable to create special folders (e.g.: *Temp* or a specific folder) so that novaPro32's working folder does not get too full. This also makes it easier to edit the automatically created files.



Monitor the amount of storage space on the hard disk!

11.2.5 The 'Selection' card

This card lets you set the type of execution with date and time for automatic execution.

The time-recording sector is matched to the selected 'Type'.

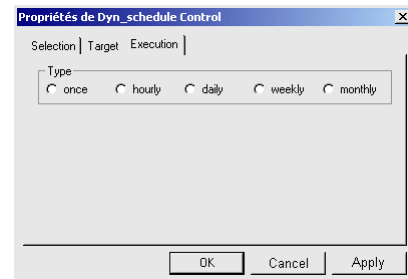


Fig. 11-17

11.2.5.1 Once

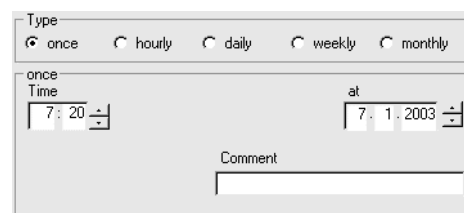


Fig. 11-18

Time :	at :	
Hour : 0 – 23	1 – 31	→ Day of month
Minute : 0 – 59	1 – 12	→ Month
	2000 – 2099	→ Calendar year
	*	→ Every year

11.2.5.1.1 Comment

Text can be entered in the relevant field.

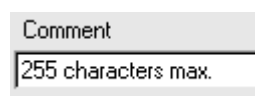


Fig. 11-19

On clicking the word 'Comment', a dialog window appears; see Fig. 11-21.

In this dialog box, you can write formatted text (e.g. with a line break). The message (see Fig. 11-22) is limited to 255 characters.

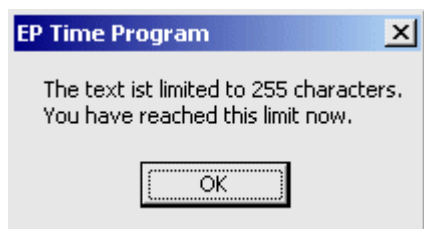


Fig. 11-22

11.2.5.2 Hourly

Time :
Minute : 0 – 59
Comment : see also 11.2.5.1.1 Comment

11.2.5.3 Daily

Time :
Hour : 0 – 23 **Minute :** 0 – 59
Comment : see also 11.2.5.1.1 Comment

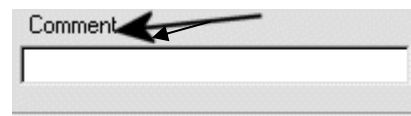


Fig. 11-20

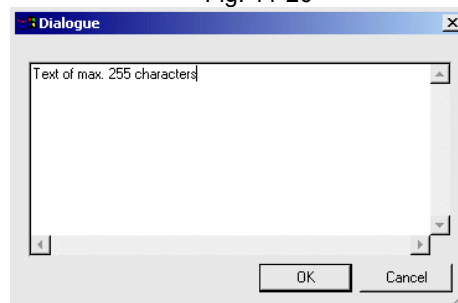


Fig. 11-21



Fig. -11-23

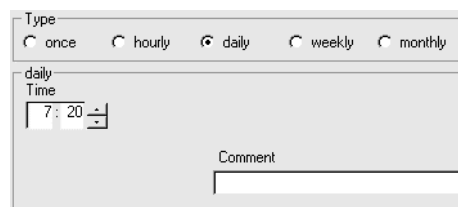


Fig. 11-24

11.2.5.4 Weekly

Fig. 11-25

Time :

Hour : **0 – 23** Minute : **0 – 59**

Comment : see also 11.2.5.1.1 Comment

It is possible to choose a calendar. The listed calendars were defined as per Chapter 9 Calendars.

The chosen calendar can also be modified.

The 'System calendar' is used as the default.

The calendars are used only in the 'Weekly' type.

Fig. 11-26

Choose a day:

Tick a day: ☒ = active

Fig. 11-27

11.2.5.5 Monthly

Fig. 11-28

Time :

Hour : **0 – 23** Minute : **0 – 59**

Comment : see also 11.2.5.1.1 Comment

PC time programmes

each :

In this dialog box, you can parameterise the day (from the first to the last day of the month) on which the programme is to be implemented.

The dialog box has two sections: 'each' and 'of the month'. The 'each' section has a dropdown menu with options: 29, 28, 29 (highlighted), 30, 31, and last. The 'of the month' section has a dropdown menu with the option: Day.

Fig. 11-29

of the month:

Or between the first and the fourth or the last day of the week of the month (Monday to Sunday)

The dialog box has two sections: 'each' and 'of the month'. The 'each' section has a dropdown menu with options: 1, Day, Monday, Tuesday (highlighted), Wednesday, and Thursday. The 'of the month' section has a dropdown menu with the option: Day.

Fig. 11-30

For instance:

Every fourth Monday of the month

The dialog box has two sections: 'each' and 'of the month'. The 'each' section has a dropdown menu with options: 4 (highlighted), 1, 2, 3, 4, and last. The 'of the month' section has a dropdown menu with the option: Monday.

Fig. 11-31

Every last Sunday of the month

The dialog box has two sections: 'each' and 'of the month'. The 'each' section has a dropdown menu with options: last (highlighted), 1, 2, 3, 4, and last. The 'of the month' section has a dropdown menu with the option: Sunday.

Fig. 11-32

The message below appears if the selection in the 'each' field is too high (e.g. every fifth Monday of the month):-

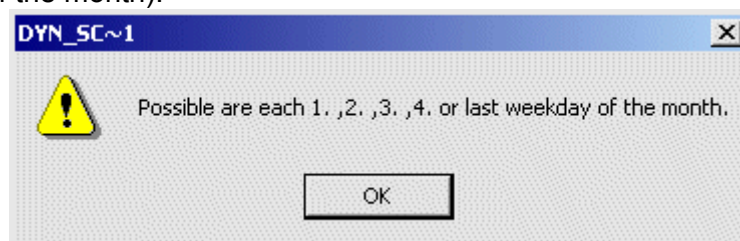


Fig. 11-33



The command line will be executed only if the parameterised day really exists. For example, if you set (every '31st' 'day' of the month) → the command will be carried out only in those months with 31 days.

All the PC time programmes for protocols parameterised in Chapter 11.2 are listed in Fig. 11-34.

S	Job	Type	Time	Date/Weekday	Calendar	Target	Next execution	Last execution
5	Alarms protocol	once	09:20	07.01. *	----	Alarm protocol printerD:\my documents\admirals P...	07.01.2003 09:20	----
	Measurements protocol	monthly	08:00	Every last Day	----	Protocol printerD:\my documents\admirals Park\P...	31.01.2003 08:00	----
	Status protocol	daily	08:00		----	Alarm protocol printerD:\my documents\admirals P...	08.01.2003 08:00	----

Fig. 11-34

The evaluation of this screenshot is described in Chapter 11.1.1.3.



N.B.: A protocol can be automatically carried out only if the document is not already in use on the screen.

Otherwise, the user is confronted with this message.

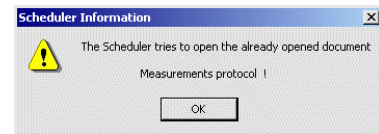


Fig. 11-35



To avoid this problem, the protocols can be copied to a separate folder so that the automatic execution also takes place when the protocol is being used on screen (see Fig. 11-36).

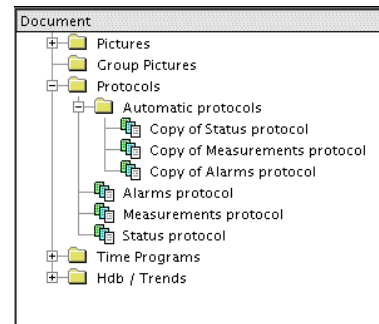


Fig. 11-36

11.3 Automatic download of AS time programmes

The menu item chosen in Fig. 11-37 lets you enter the data and the time for the automatic execution of either the AS time programme or the time-programme group whose parameterisation is described in Chapter 8 Time programme and is listed in Fig. 8-6.

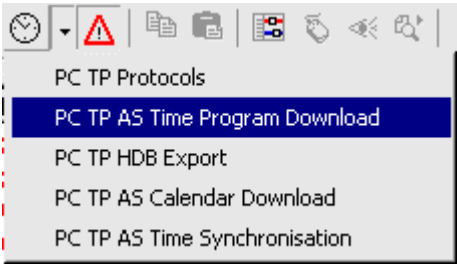


Fig. 11-37

On activating the command line (Fig. 11-37), there appears the window Fig. 11-38 in which the parameterisation can be carried out.

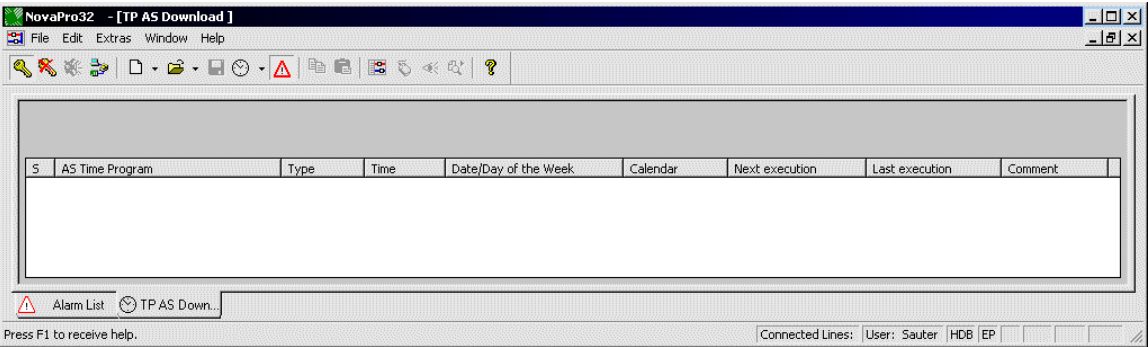


Fig. 11-38 TP-AS download

11.3.1 Context menu

On right-clicking in the empty space Fig. 11-38, the context menu appears (see Chapter 11.1.1.1 Context menu under Common functions). Only the ‘AS time-programme group’ command line has been added. It enables you to change the PC time programme belonging to a group of time programmes of various ASs. This menu is active only if a command line of a group of AS time programmes has been assigned.



Fig. 11-39

11.3.2 The 'Selection' card

On pressing the 'New' button, the 'Properties of Dyn_schedule Control' card appears.

The active 'Selection' card is used to set the assignment of a PC TP to an AS time-programme group or to a single AS_time programme.

The activated commands *New*, *Open*, *Delete*, *Copy* and *Rename* depend on which type of AS time programme was chosen.

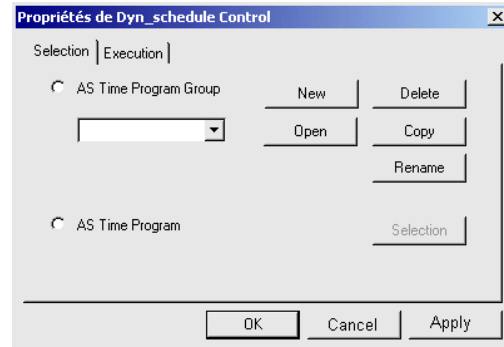


Fig. 11-40

On pressing the 'New' button, the window shown in Fig. 11-41 appears.

After entering the name of the AS time-programme group, you can choose the pre-defined AS-time programmes (see Chapter 8 Time programme) and, using the '>' button, assign them to a group.

Press **OK** to confirm.

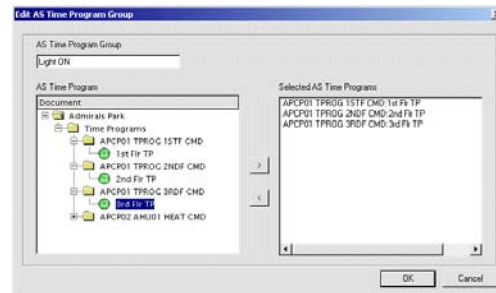


Fig. 11-41

The group defined above (Fig. 11-41) can be taken from the pull-down menu.

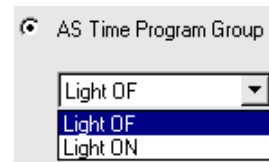


Fig. 11-42

The 'Open' button opens the window Fig. 11-41 in which the chosen group can be changed.

Use the 'Delete' button to erase the group after confirming the message Fig. 11-43.

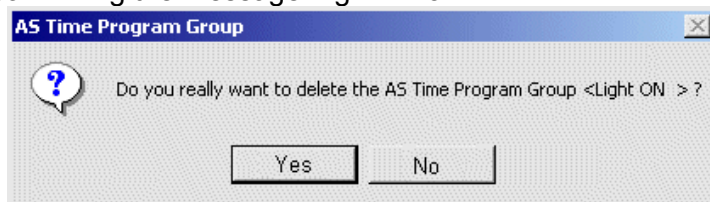


Fig. 11-43

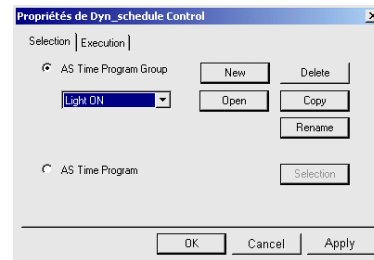


Fig. 11-44

The selected group can be copied and renamed.

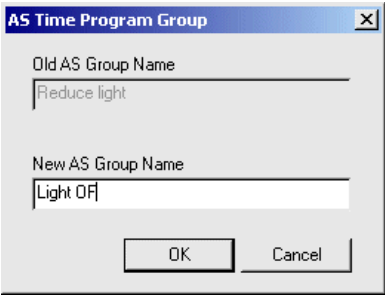


Fig. 11-45

The ‘AS time programme’ button is used to assign an AS-time programme from the list.

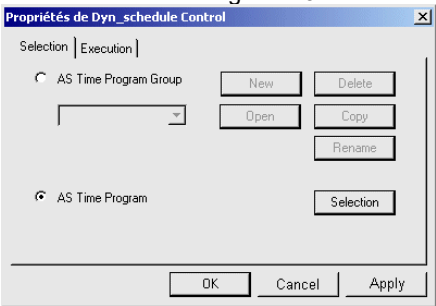


Fig. 11-46

11.3.3 The ‘Execution’ card

This card is identical, except for the selected type of time programme.
 Only the types ‘once’, ‘weekly’ and ‘monthly’ are available.
 Chapters 11.2.5.1 Once, 11.2.5.4 Weekly and 11.2.5.5 Monthly describe how to parameterise the various types.

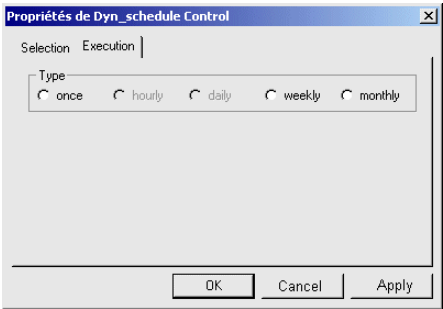


Fig. 11-47

All parameters concerning the PC time programmes for the automatic download of the AS time programmes appear in Fig. 11-48.

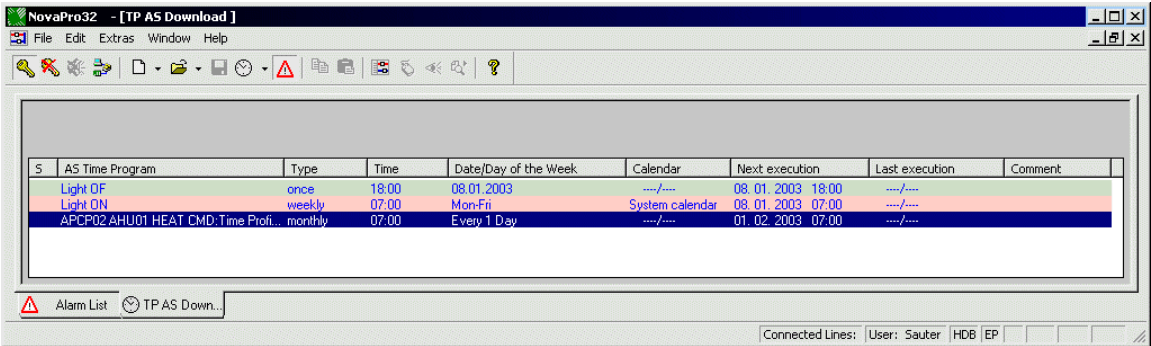


Fig. 11-48 PC-TP for downloading the AS time programmes



N.B.: A PC-TP for the download of an AS time programme can be carried out automatically only if the document is not in use on the screen.
 Otherwise the user is shown a message to that effect.

11.4 Automatic HDB Export

In this menu item, the date and time can be set for automatic execution of the HDB data that you want to export. These are the HDB/Trend which were pre-set (see Chapter 10 Historical database/Trend and which are listed in Fig. 10-7 List of configured HDB.

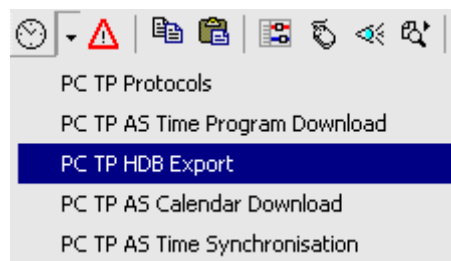


Fig. 11-49

On activating the command line (Fig. 11-49), there appears a window Fig. 11-50 in which the parameterisation can be carried out.

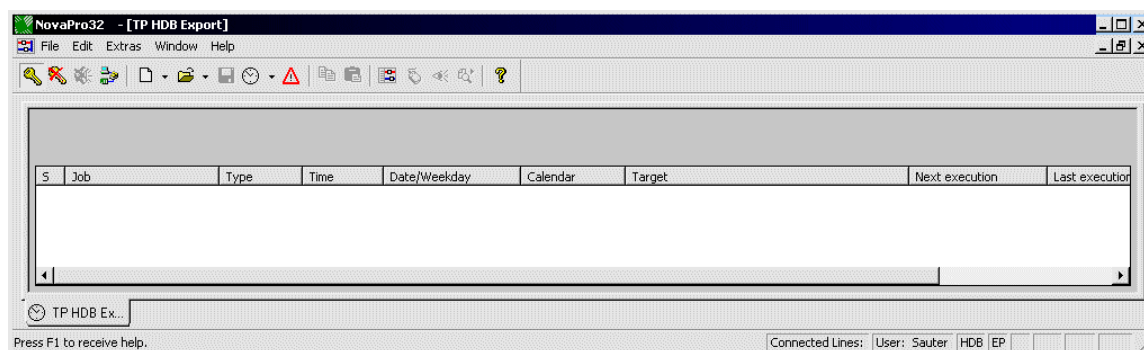


Fig. 11-50 PC-TP export

11.4.1 Context menu

The context menu appears when you right-click the empty space Fig. 11-8. (See Chapter 11.1.1.1 Context menu under Common functions)

11.4.2 The 'Selection' card

On selecting the 'New' and 'Modify' buttons, the 'Properties of Dyn_schedule Control' card appears. On activating the 'Select' button, the dialog box appears in which you can choose an HDB.

The HDB/Trends shown in Fig. 11-52 are the ones that were set in Chapter 10 Historical database/Trend. Press **OK** to confirm.

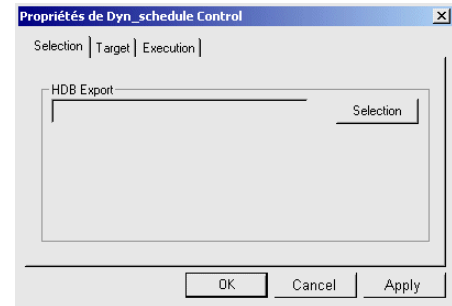


Fig. 11-51

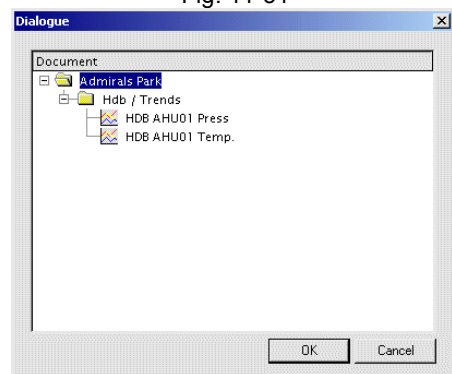


Fig. 11-52

11.4.3 The 'Target' card

In this card, you can save the target for the automatic HDB export on the default printer set under Windows and/or **one** '.txt' file.

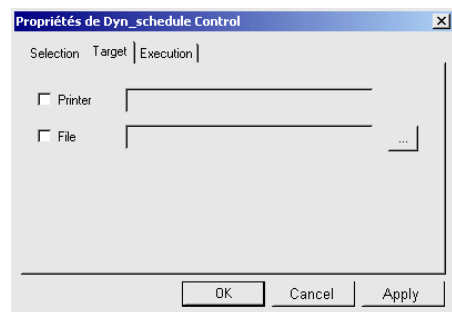


Fig. 11-53

If the 'Printer' field is chosen, the system copies the name of the default printer into the relevant line (Fig. 11-54).

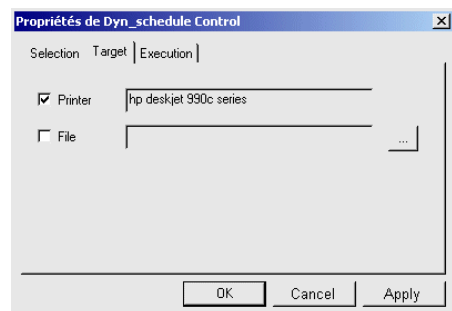


Fig. 11-54

11.4.4 The 'Execute' card

In this card, you can set the type of execution with date and time for automatic execution.

The time-recording sector is matched to the type chosen.

(See also Chapter 11.2.5 The 'Selection')

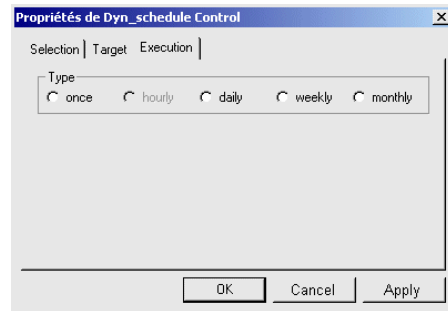
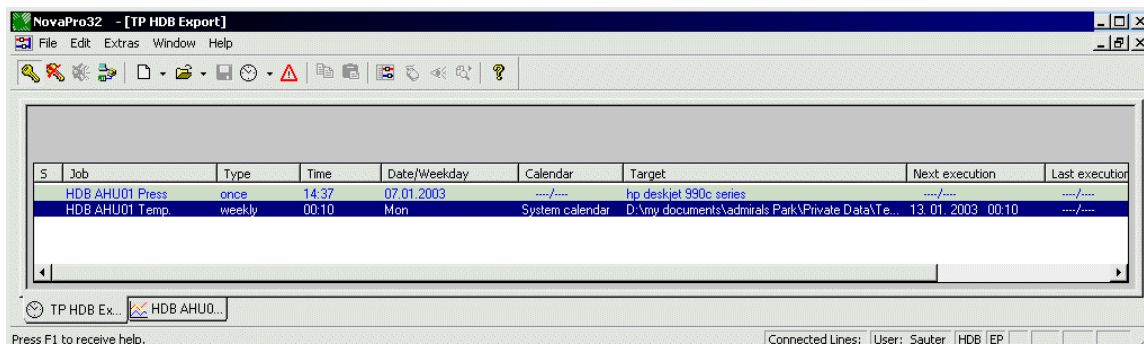


Fig. 11-55



The 'hourly' type is not available in this function.

All the PC time programmes for HDB Export that were parameterised in Chapter 11.4 are listed in Fig. 11-56.



S	Job	Type	Time	Date/Weekday	Calendar	Target	Next execution	Last execution
5	HDB AHU01 Press	once	14:37	07.01.2003	----	hp deskjet 990c series	----	----
	HDB AHU01 Temp	weekly	00:10	Mon	System calendar	D:\my documents\admirals Park\Private Data\Te...	13.01.2003 00:10	----

Fig. 11-56 Automatic HDB export



To effect the automatic export of the HDB, the HDB server has to have been started (HDB is then shown in the status bar). The HDB server does not start automatically if the function is required.



N.B.: A PC-TP for the automatic HDB export can be carried out automatically only if the document is not already in use on the screen. Otherwise the user is shown a message to this effect.

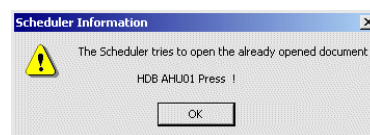


Fig. 11-57



To avoid this problem, the HDB/Trends for automatic export can be copied to a separate folder so that the automatic execution also takes place when the relevant HDB is being used on screen, e.g. under automatic HDB export in Fig. 11-58.

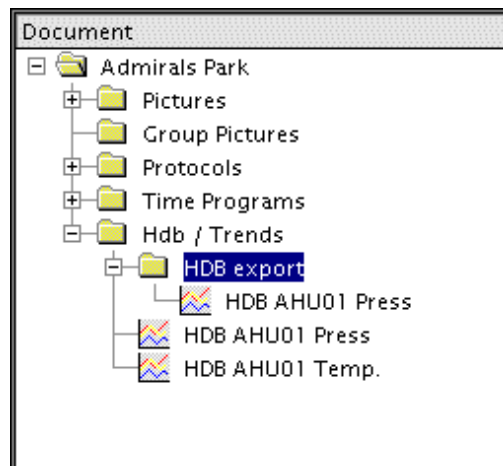


Fig. 11-58

11.5 Automatic download of AS calendars

In this menu item, you can set the date and time for the automatic execution of the AS calendars that you want to export. These are the calendars that were pre-defined (see Chapter 9.6 Assign an AS to a calendar).

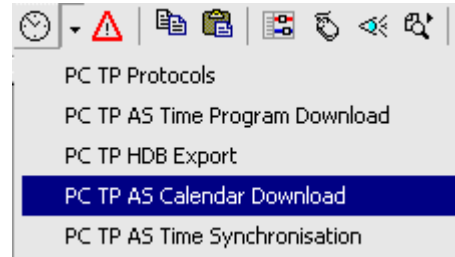


Fig. 11-59

On activating the command line (Fig. 11-59), there appears a window Fig. 11-60 in which the parameterisation for the calendar download can be effected.

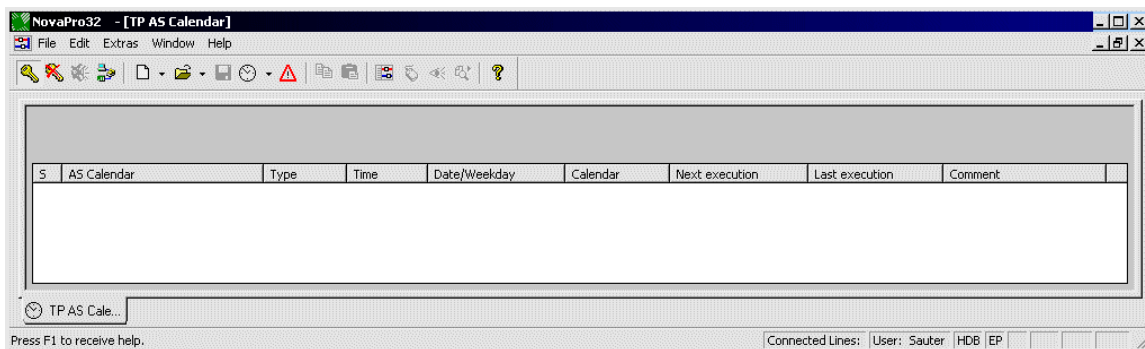


Fig. 11-60

11.5.1 Context menu

(See Chapter 11.1.1.1 Context menu under Common functions)

11.5.2 The 'Selection' card

On selecting the 'New' and 'Modify' buttons, the 'Properties of Dyn_schedule Control' card appears. You can choose a calendar in the pull-down menu. The various calendars that are available are the ones that were pre-defined (see Chapter 9 Calendars).

N.B.: Only those calendars that are assigned to an AS are available here.
Press **OK** to confirm.

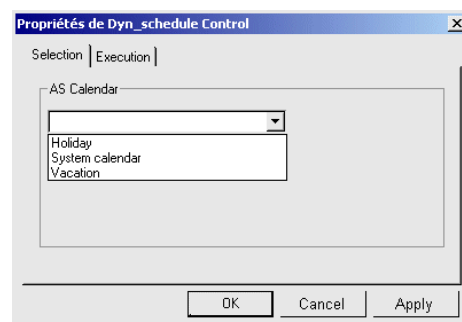


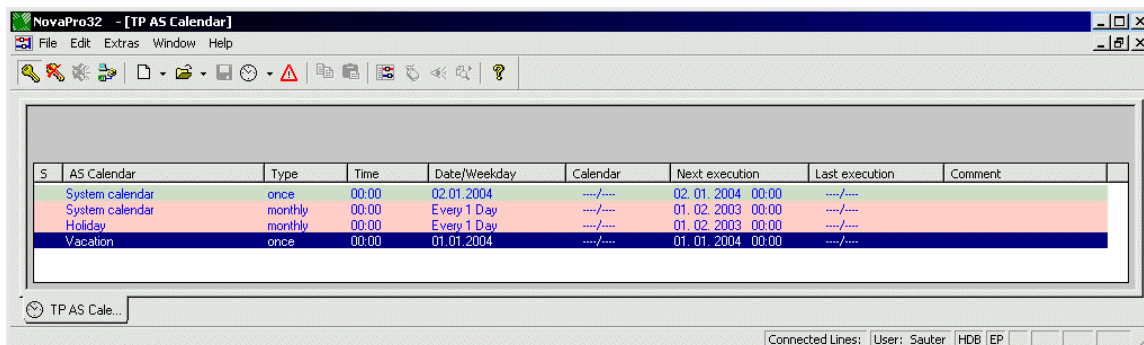
Fig. 11-61

11.5.3 The 'Execute' card

This card offers the types 'once', 'weekly' and 'monthly'.

See paragraph 11.2.5 The 'Selection' on how to parameterise the various modes.

All the calendars that occur in Chapter 11.5 Automatic download of AS calendar are listed in Fig. 11-62.



S	AS Calendar	Type	Time	Date/Weekday	Calendar	Next execution	Last execution	Comment
	System calendar	once	00:00	02.01.2004/....	02.01.2004 00:00/....	
	System calendar	monthly	00:00	Every 1 Day/....	01.02.2003 00:00/....	
	Holiday	monthly	00:00	Every 1 Day/....	01.02.2003 00:00/....	
	Vacation	once	00:00	01.01.2004/....	01.01.2004 00:00/....	

TP AS Cale...

Connected Lines: User: Sauter HDB EP

Fig. 11-62

11.6 Automatic time synchronisation of AS

In the menu item selected in Fig. 11-63, you can synchronise the date and time for the automatic execution of the time synchronisation of the ASs from the same net with the PC's time.

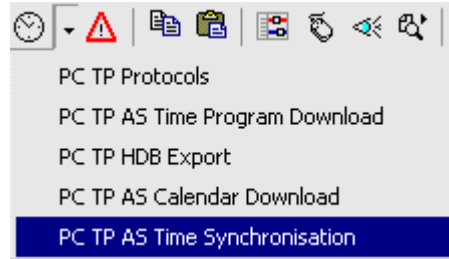


Fig. 11-63

On activating the command line, there appears a window Fig. 11-64 in which the parameterisation for the time synchronisation can be carried out.

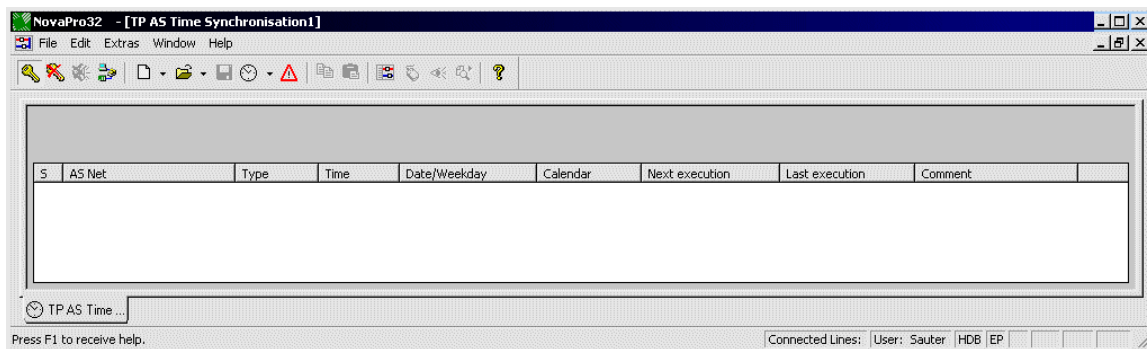


Fig. 11-64 PC-TP for time synchronisation of the AS

11.6.1 Context menu

(See Chapter 11.1.1.1 Context menu under Common functions).

11.6.2 The 'Selection' card

On selecting the 'New' and 'Modify' buttons, the 'Properties of Dyn_schedule Control' card appears. You can choose one of the nets parameterised in the FBD. Press **OK** to confirm.

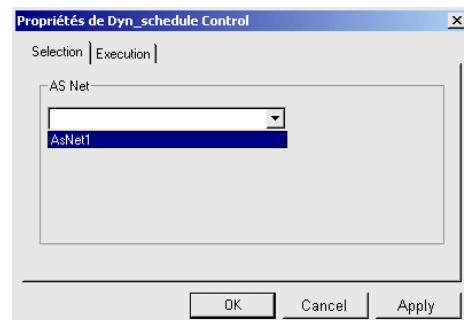


Fig. 11-65

11.6.3 The 'Execute' card

This card offers only the types 'once', 'weekly' and 'monthly'.

See paragraph 11.2.5 The 'Selection' on how to parameterise the various modes.

The PC's time is automatically sent to all ASs connected to that particular net.

All those in Chapter 11.6 Automatic time synchronisation of AS are listed in Fig. 11-66.

S	AS Net	Type	Time	Date/Weekday	Calendar	Next execution	Last execution	Comment
	AsNet1	monthly	00:00	Every 1 Day	---/---	01.02.2003 00:00	---/---	

Fig. 11-66

12 Address list



The address list allows you to operate the installation directly using released automation station house addresses, so that you can operate an installation without pictures.

The address list contains the same operation functions as the pictures; i.e. you can acknowledge alarms and limit value violations, modify setpoint and limit values, or generate switching commands.

You can call up an installation schematic in which the selected address is dynamised, directly from the address list.

Address	Description	State/Value+Limit	Limit Value 1	Limit Value 2	Acknowledged by
APCP02 AHU01 BGFT DIR	AHU 1 Bag Filter Dirty	NORMAL			
APCP02 AHU01 COOL VLV	AHU 1 Cooling Coil Control Valve	0.0			
APCP02 AHU01 DAMP FRE	AHU 1 Fresh/Recirc/Exhaust Damp	100.0			
APCP02 AHU01 DAMP GAS	AHU 1 Gas Fired Heater Damper	0.0			
APCP02 AHU01 EF01 CMD	AHU 1 Extract Fan Invert Command	OFF_AUTO			
APCP02 AHU01 EF01 DPS	AHU 1 Extract Fan DPS	FLOW			
APCP02 AHU01 EF01 FFL	AHU 1 Extract Fan Flow Fail	NORMAL			
APCP02 AHU01 EF01 FLT	AHU 1 Extract Fan Fault	NORMAL			
APCP02 AHU01 EF01 RUN	AHU 1 Extract Fan Status	RUN			
APCP02 AHU01 EF01 RUN	AHU 1 Extract Fan Status	36.7 Hrs			
APCP02 AHU01 EF01 SPD	AHU 1 Extract Fan Invert Signal	0.0			
APCP02 AHU01 FRST STT	AHU 1 Frost Stat	FROST			
APCP02 AHU01 HEAT CMD	AHU 1 Gas Fired Heater Command	OFF_FCD			
APCP02 AHU01 HEAT HIF	AHU 1 Gas Fired Heater Hi Fire	HI			
APCP02 AHU01 HEAT OUT	AHU 1 Gas Fired Heater Lockout	NORMAL			
APCP02 AHU01 HEAT RUN	AHU 1 Gas Fired Heater Status	ON			
APCP02 AHU01 HEAT RUN	AHU 1 Gas Fired Heater Status	36.7			
APCP02 AHU01 HEAT SIG	AHU 1 Gas Fired Heater Signal	100.0			
APCP02 AHU01 MIXD SXS	AHU 1 Mixed Air Temp XS	3.0 °C			
APCP02 AHU01 PFLT DIR	AHU 1 Panel Filter Dirty	NORMAL			
APCP02 AHU01 PRES FXS	AHU 1 Supply Air Pressure XS	75.0 Pa			
APCP02 AHU01 PRES SAP	AHU 1 Supply Air Static Pressure	103.8 Pa			
APCP02 AHU01 RSET CMD	AHU 1 Reset Command				
APCP02 AHU01 RTUN FXS	AHU 1 Return Temp XS	21.0 °C			
APCP02 AHU01 SF01 CMD	AHU 1 Supply Fan Invert Command	OFF_AUTO			
APCP02 AHU01 SF01 DPS	AHU 1 Supply Fan DPS	OFF			
APCP02 AHU01 SF01 FFL	AHU 1 Supply Fan Flow Fail	NORMAL			
APCP02 AHU01 SF01 FLT	AHU 1 Supply Fan Fault	FAULT			
APCP02 AHU01 SF01 RUN	AHU 1 Supply Fan Status	OFF			
APCP02 AHU01 SF01 RUN	AHU 1 Supply Fan Status	0.4 Hrs			
APCP02 AHU01 SF01 SPD	AHU 1 Supply Fan Invert Signal	0.0			
APCP02 AHU01 TEMP FAI	AHU 1 Fresh Air Inlet Temp	-17.1 °C			
APCP02 AHU01 TEMP MAT	AHU 1 Mixed Air Temp	-16.9 °C			
APCP02 AHU01 TEMP RAT	AHU 1 Return Air Temp	2.9 °C			
APCP02 AHU01 TEMP SAT	AHU 1 Supply Air Temp	-10.1 °C			

Fig. 12-1: Example of an address list



Non-responding ASs are reported (also over 291). Associated addresses are marked in the pictures, alarm lists and address lists with a greyed background.

12.1 AS monitoring

The ASs connected to a novaNet net and lost ASs are shown in the AS list.

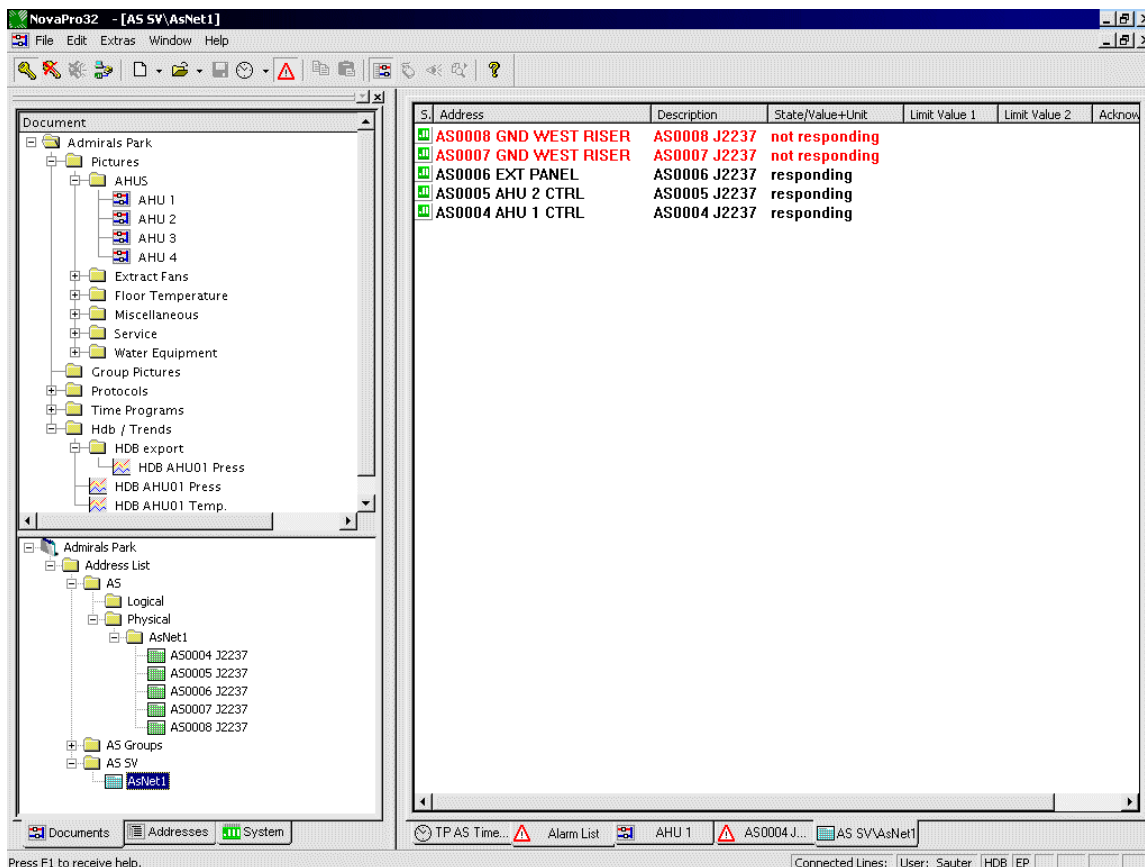


Fig. 12-2

In addition, the messages can also be assigned in the alarm list if they are in the alarm filter.

12.2 Create an address list

12.2.1 Open an address list

To create a new address list, use the 'File|Open → Address List' menu. You will be shown an overview of all the installations and all the pictures in your project. Alternatively, you can open an address list directly by double-clicking on it in the **novaPro32** Document Browser (see Fig. 5-3, page 29).

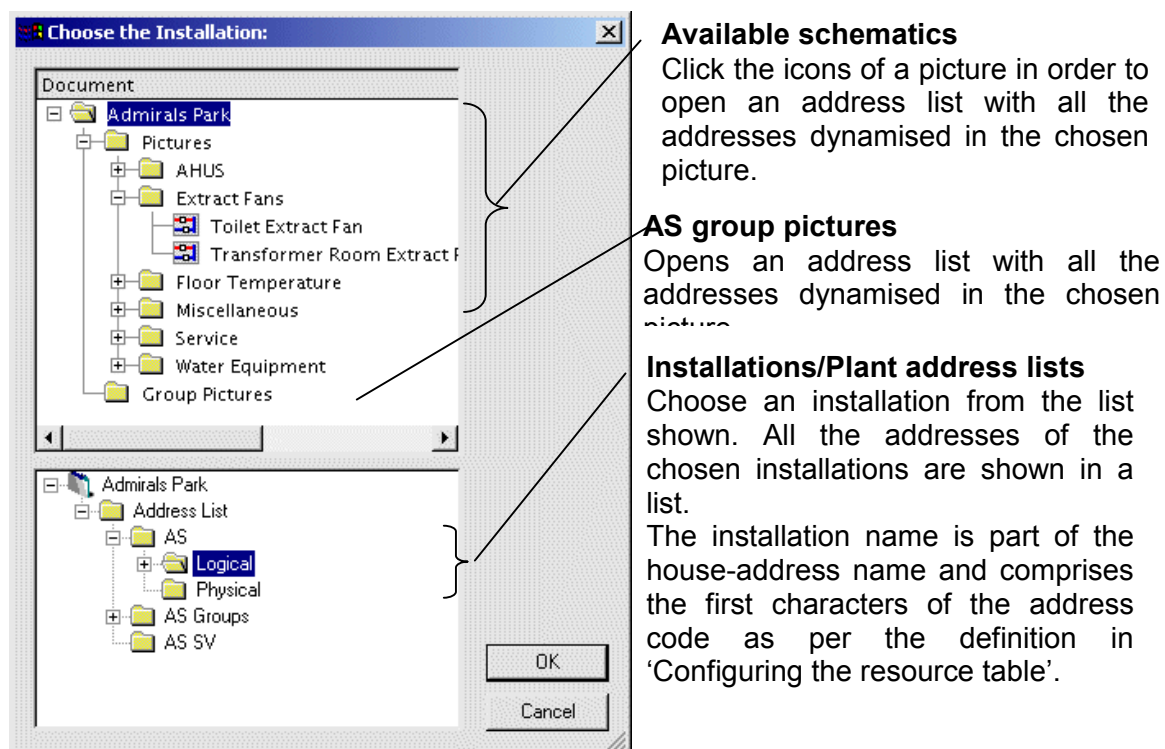


Fig. 12-3: Opening an address list

You can open the address lists in novaPro32 as shown in Table 5

Table 5: Types of address list

• by picture:	All addresses dynamised in a picture are listed.
• by AS group picture:	All addresses dynamised in an AS group picture are listed
• installation address list:	All the addresses of the selected installations are shown in a list. The installation designation is part of the house address designation, comprising the first characters of the address designation as per the definition in 'Configuration BMT'.
• physical address list	All the addresses of a selected automation station are listed.
• AS-SV, automation station monitoring:	One address list with the self-monitoring addresses of all automation stations is opened per AS network.

12.2.2 Call up an address list from the alarm list

You can also call the address list up directly from the alarm list. To do this, use the right-hand mouse button to select an address in the alarm list. Now you will see a menu where you can choose between an installation address list and an address list based on a novaPro32 picture.

The installation address list shows all the addresses with the same installation designation as the selected address. Address lists based on novaPro32 pictures contain all the dynamised addresses in the selected picture.

12.2.3 Call up an address list from a picture

With the relevant configuration, an address list can also be called up directly from a picture (such as the start screen), using a command button (see Chapter 6.2.5).

12.3 Operation using the address list

You can operate an installation which is automated with the EY3600 system directly from the address list. In this case, you have the same possibilities as when you operate the installation via pictures. Operation is entirely menu-prompted.

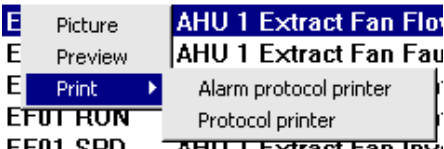
- To do this, use the right-hand mouse button to select a entry from the address list.
The context menu will show you all the commands available for the selected address.
- Select the command you want.

12.4 Print

The address list can be printed directly from novaPro32. To do this, select the ‘Print’ command from the context menu.

The ‘Preview’ command shows you an on-screen print preview of the address list that is currently selected. Use this function to check your print settings.

You can choose a printer from the list of pre-defined printers.



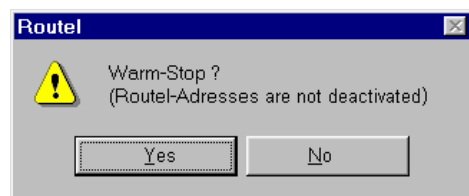
13 Remote monitoring and routel

13.1 Introduction

The PC and the AS island are connected to each other via modem. Alarms and limit violations are reported from the island to the monitoring PC.

13.2 Start / Stop of nP32

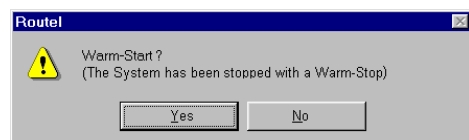
When stopping novaPro32 for the first time, the system will ask:



'Yes' will cause novaPro32 to stop without deactivating the Routel-Addresses, means without calling the islands.

This means in particular, that the islands will still message events by modem. The PC will not take the phone. The 'Dial sequence' (cf. Ch. 3.2) will determine the frequency of the retries.

When starting novaPro32 following a Warm-Stop, the system will ask:



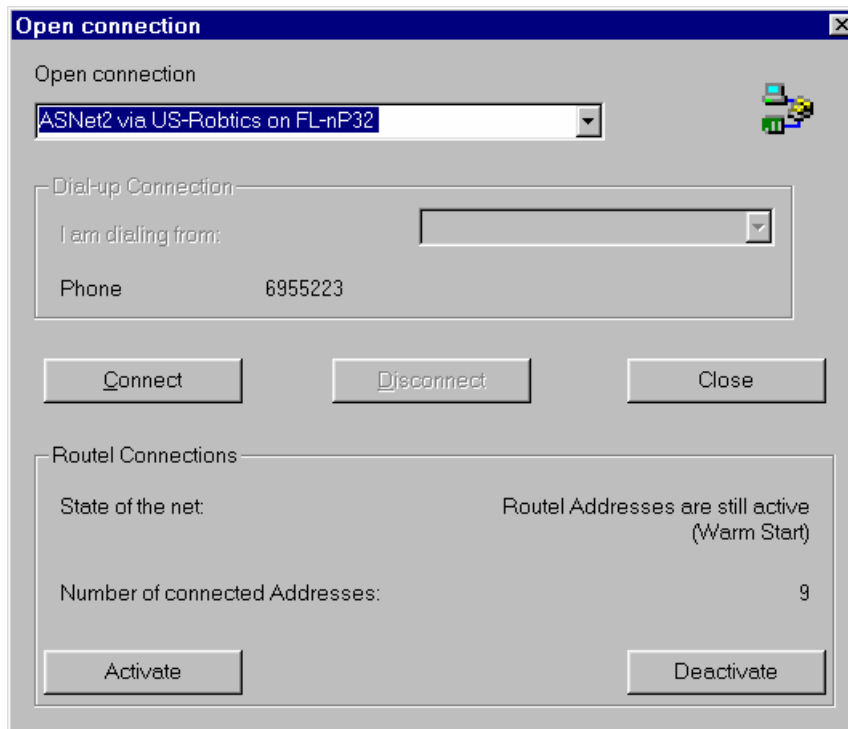
Clicking on '**No**' will cause novaPro32 to start with a Cold-Start. This means all islands will be called, the Routel (EP) -Addresses concerned will be re-activated in the AS and thus be read.

'**Yes**' will cause novaPro32 to start without re-activating the routel addresses, means without calling the islands.

This means in particular, that the data base of the current Alarms on the PC is not refreshed, which leads to no Alarms being displayed in the Alarm List thereafter. Therefore, it's possible to make a Cold Start even after a Warm Stop. In any case the data base of the current Alarms will be refreshed at the next following messaging of an event from the island and the alarms of this island are then displayed in the Alarm List thereafter.

13.3 Manual connections

Open the 'Connections' menu by clicking 'File', 'Connections', or the icon :

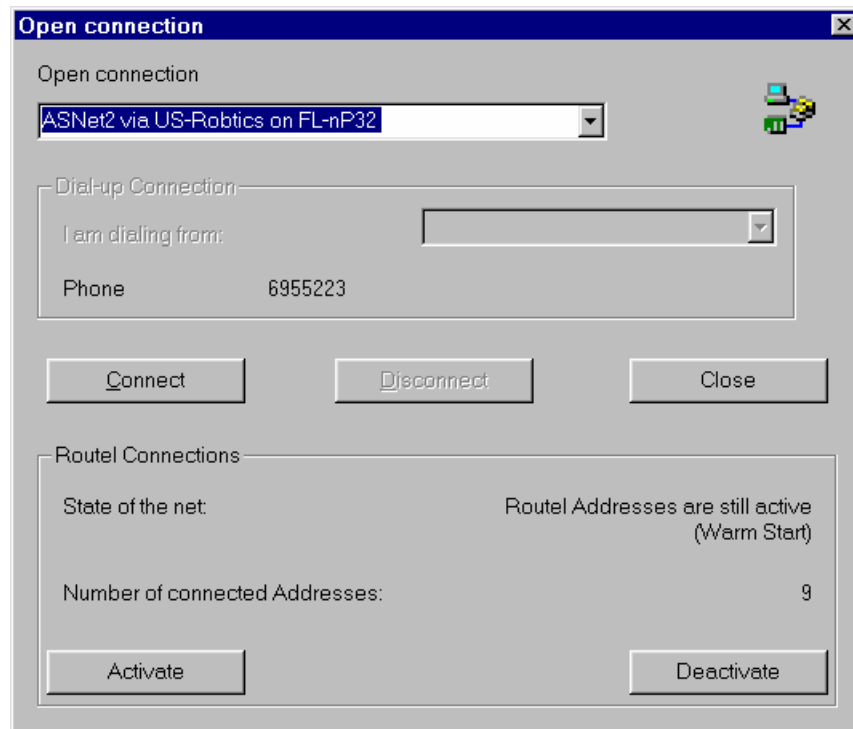


Connect

- 'Connect' establishes a connection to the island selected.
- This connection, since initiated from the PC, is a 'Router'-connection. The EYZ291 will be set to Router-mode. The mode will be reset to 'Routel-mode' by the EYZ291 itself, at the moment of the disconnection.
- All Addresses form opened Pictures, Address-Lists, Trends will be activated in DW35.
- It's important to open any Pictures, Address-Lists, Trends, only after the connection to the island concerned has been established. Otherwise no values are being displayed (because the addresses are not activated).
- When closing the connection, it's good practice to close the Pictures, Address-Lists, Trends first, in order to de-activate the addresses concerned. (However, the Addresses are de-activated at next Garbage-Collection otherwise)

13.4 Treatment of manual addresses

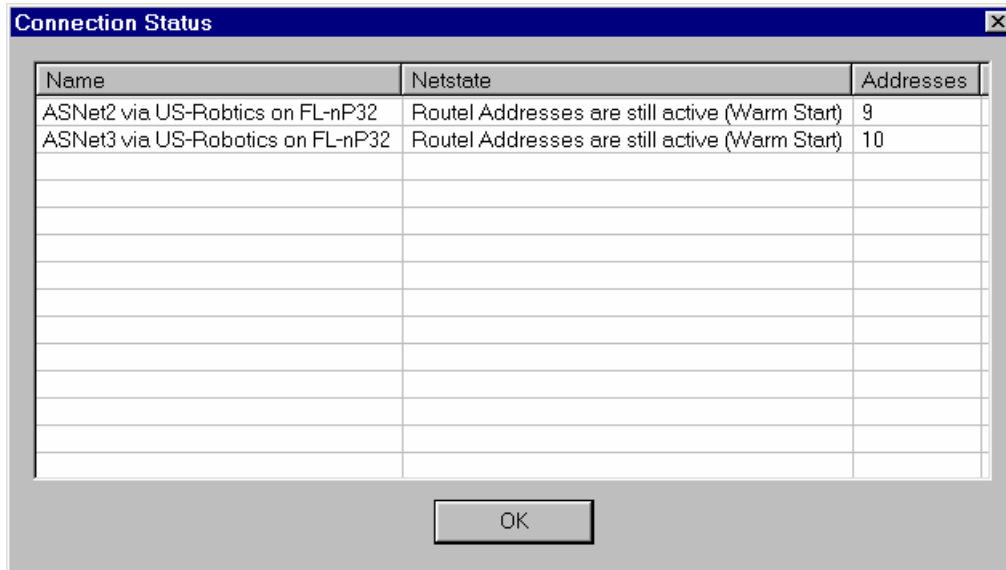
Open the 'Connections' menu by clicking 'File', 'Connections', or the icon :



Routel Connections:

- '**State of the net**' displays whether the Routel-Addresses are activated or not.
- '**Number of connected Addresses**' displays the number of Routel-Addresses for this island.
- '**Activate**' activates or re-activates the Routel-Addresses (the Island is called, if not connected anyway). Activating the Routel-Addresses also refreshes the Addresses concerned within the nP32 Event Publisher (and thus within the Alarm List).
- '**Deactivate**' de-activates or re-de-activates the Routel-Addresses (the Island is called, if not connected anyway).

Opening the 'File' menu , 'Connection States', opens an overview for all Routel Islands:



The screenshot shows a window titled 'Connection Status' with a table containing connection information. The table has three columns: 'Name', 'Netstate', and 'Addresses'. The first two rows show active connections to ASNet2 and ASNet3 via US-Robotics on FL-nP32, both with 9 and 10 addresses respectively. The remaining rows are empty.

Name	Netstate	Addresses
ASNet2 via US-Robotics on FL-nP32	Routel Addresses are still active (Warm Start)	9
ASNet3 via US-Robotics on FL-nP32	Routel Addresses are still active (Warm Start)	10

OK

14 Help and online documentation



14.1 Calling up Help

As usual in other Windows programs, you call up Help in **novaPro32** by clicking on the '?' menu. In the '?' menu, click on 'Help topics'. You will see an overview of the online manuals that are installed. Use the mouse to select a manual so that you can read it directly on screen. The manual is shown in a new window, together with the table of contents. Select the chapter you want from the table of contents.

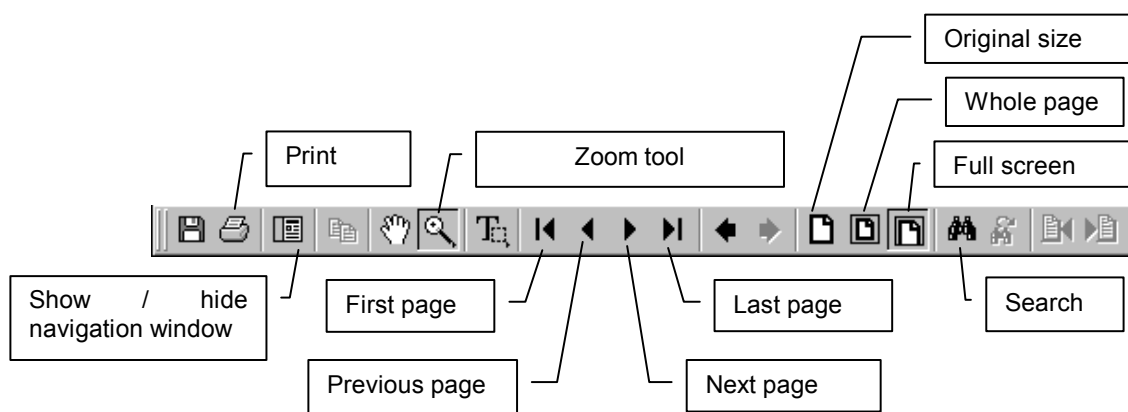


Fig. 14-1: Navigation bar for novaPro32 online Help

14.2 Read on screen

- Use the 'Original size', 'Whole page', 'Full screen' icons and the 'Zoom tool' to select a suitable screen display.
- Use the 'First page', 'Previous page', 'Next page' and 'Last page' icons to navigate in the document.

14.3 Print the manual

Use the 'Print' icon to print some or all parts of the manual. Select the paper format to be used in the printer settings. The page size is automatically adjusted to the paper format you use for printing.

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